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PERSONAL.

Mr. F. W. Huidekoper, President of the Chicago, Peoria & St. Louis R. R., with headquarters in New York city, has resigned.

Mr. Daniel W. Brown has been appointed Comptroller, and Mr. Willis Tharp, Mechanical Superintendent of the water-works of Cincinnati, O.

Mr. Richard Ryan, Jr., civil engineer, of Penn Yan, N. Y., has been appointed to a position in the Department of Public Works of Albany, N. Y.

Mr. Joseph H. Young, civil and hydraulic engineer, has removed his offices to 1237 Arch St., Philadelphia, instead of to 123 Arch St., as incorrectly reported last week.

Mr. George W. Edwards, Secretary of the Water-Works Commission of Cincinnati, O., has resigned and will devote himself to operating a coal vein lately discovered on his property in West Virginia.

Mr. E. Gerber, M. Am. Soc. C. E., for many years Principal Assistant Engineer with Mr. Geo. S. Morison, M. Am. Soc. C. E., has been appointed Engineer of the Lassig Bridge & Iron Works, of Chicago, Ill.

Gen. J. H. Kidd, has been appointed Secretary of the Board of Engineers for deep water-ways from the great lakes to the Atlantic seaboard, by Secretary Alger, of the War Department. His headquarters will probably be in Detroit, Mich.

Mr. Charles L. Harrison, formerly Division Engineer on the Chicago Main Drainage Channel, at Lockport, Ill., has been appointed to a position on the engineering staff of the Deep Water-Ways Commission, with headquarters at Buffalo, N. Y.

Mr. W. P. Orland, Division Master Mechanic of the Cleveland, Cincinnati, Chicago & St. Louis Ry., with headquarters at Mt. Carmel, Ill., has been transferred in a similar capacity to Wabash, Ind., to succeed Mr. F. J. Zerbee, promoted.

Mr. Willard Beahan, formerly with Anderson & Barr, has been engaged as Superintendent of Construction of the Cascade Tunnel on the Great Northern Ry. in Washington. This tunnel is to be about two and a half miles long, in granite probably the entire length, and when completed will obviate the necessity of using the present switch back, which is 12 miles long.

Mr. G. S. McKee, Division Master Mechanic of the Cleveland, Cincinnati, Chicago & St. Louis Ry., with headquarters at Mattoon, Ill., has been appointed to a similar position with the Wabash R. R., with headquarters at Moberly, Mo., to succeed Mr. T. E. Butterly. Mr. F. J. Zerbee, Division Master Mechanic of the former road at Wabash, Ind., has been appointed to succeed him.

Mr. Samuel R. Callaway, President of the New York, Chicago & St. Louis R. R., with headquarters in Cleveland, O., has been elected President of the Lake Shore & Michigan Southern Ry. to succeed the late Gen. David W. Caldwell, whose death was announced in our issue of July 29. Mr. Callaway is a native of Canada and entered the railway service in 1863 with the Grand Trunk Ry. From 1874 to 1878 he was Superintendent of the Detroit & Milwaukee R. R. In 1881 he became General Manager of the Chicago & Grand Trunk Ry., and President of the Chicago & Western Indiana and Belt Line Rys. In 1884 he was elected Second Vice-President and General Manager of the Union Pacific Ry. He became President of the Toledo, St. Louis & Kansas City R. R. in 1887, and in 1895 was elected President of the New York, Chicago & St. Louis R. R.

OBITUARY.

Mr. Samuel McIlvain, contractor and builder, of Chester, Pa., died in Philadelphia, Aug. 13.

Mr. Tobias Witmer, civil engineer and surveyor, of Williamsville, N. Y., died Aug. 14, aged 80.

Mr. Edward Bowen, civil engineeer, and formerly Vice-President and General Manager of the Rome, Watertown & Ogdensburg R. R., and of the South Carolina R. R., died Aug. 19.

Joseph A. Lockwood, for 25 years identified with the water-works of Yonkers, N. Y., died at Stamford, N. Y., on Aug. 24. Mr. Lockwood was born at Pound Ridge on Nov. 5, 1847, and was graduated from Union College with the degree of civil engineer. He located in Yonkers and for many years was the superintendent of the water-works at that place and a director of two of the Yonkers banks.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Sept. 1. Secy., C. W. Hunt, 127 E. 23d St., New York City.
ENGINEERS' CLUB OF ST. LOUIS.
Sept. 1. Secy., Richard McCulloch, St. Louis, Mo.
WESTERN SOCIETY OF ENGINEERS.
Sept. 1. Secy., U. L. Litton, Monadnock Block, Chicago, Ill.
BROOKLYN ENGINEERS' CLUB.
Sept. 2. Secy., A. J. Prevost, 191 Montague St., Brooklyn, N. Y.
TECHNICAL SOCIETY OF THE PACIFIC COAST.
Sept. 3. Secy., O. Von Geldern, 819 Market St., San Francisco.
ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Sept. 6. Secy., Henry Vier, Library Bldg., Buffalo, N.Y.
NATIONAL ASSOCIATION OF STATIONARY ENGINEERS.
Sept. 7. Sixteenth annual meeting, Columbus, O.
COLUMBIAN ENGINEERING SOCIETY.
Sept. 7. Secy., F. W. Hart, 15th and H Sts., Washington, D. C.
NATIONAL RAILROAD MASTER BLACKSMITHS' ASSOCIATION.
Sept. 7. Chicago, Ill. Secy., Geo. F. Hinkens, Gladstone, Minn.
NEW ENGLAND RAILWAY CLUB.
Sept. 8 Secy., Edw'd L. Jones, P. O. Box 1158, Boston, Mass.
MASTER CAR AND LOCOMOTIVE PAINTERS' ASSOCIATION.
Sept. 8. Old Point Comfort, Va. Secy., Robert McKeon, Kent, O.
NEW ENGLAND WATER-WORKS ASSOCIATION.
Sept. 8-10. Newport, R. I. Secy., J. C. Whitney, Newton, Mass.
ENGINEERING ASSOCIATION OF THE SOUTH.
Sept. 9. Secy., L. P. Brown, Nashville, Tenn.
ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
Sept. 9. Secy., James K. Zollinger, Norton Bldg., Louisville, Ky.
NORTHWESTERN TRACK AND BRIDGE ASSOCIATION.
Sept. 10. Secy., D. W. Meeker, St. Paul, Minn.
ST. LOUIS RAILWAY CLUB.
Sept. 10. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.
WISCONSIN POLYTECHNIC SOCIETY.
Sept. 14. Secy., W. K. Means, Loan and Trust Bldg., Milwaukee, Wis.
RAILWAY SIGNAL CLUB.
Sept. 14. Secy., Geo. M. Basford, The Rookery Bldg., Chicago, Ill.
ROADMASTERS' ASSOCIATION OF AMERICA.
Sept. 14. Annual meeting, Old Point Comfort, Va. Secy., J. D. Dickson, C. & N. W. Ry., Sterling, Ill
NEW YORK RAILWAY CLUB.
Sept. 16. Secy. W. W. Wheatly, 168 Montague St., Brooklyn, N. Y.
AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.
Sept. 22. Annual meeting, at Nashville, Tenn. Secy., C. A. Hammond, Asbury Park, N. J.
AMERICAN FORESTRY ASSOCIATION.
Sept. 22. Annual meeting, at Nashville, Tenn. Secy., F. H. Newell, Washington, D. C.
NATIONAL IRRIGATION CONGRESS.
Sept. 28, 29 and 30. Annual meeting, at Lincoln, Neb. Secy., C. M. Heintz, Los Angeles, Cal.
AMERICAN INSTITUTE OF ARCHITECTS.
Sept. 28-30. Detroit, Mich. Secy., Alfred Stone, Providence, R. I.
AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 5. Nashville, Tenn. Secy., David L. Fulton, Allegheny, Pa.
AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 19, 22. Annual convention at Niagara Falls, N. Y. Secy., T. C. Penington, Chicago.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
Oct. 20. Secy., R. W. Pope, 26 Cortlandt St., New York city.

ASSOCIATION OF RAILWAY SUPERINTENDENTS O FBRIDGES AND BUILDINGS.—The seventh annual convention will be held at the Brown Palace Hotel, Denver, Colo., beginning Tuesday, Oct. 19. The first two days will be devoted to business, as also the morning of the third day, and on the afternoon of that day there will be an excursion to smelting plants in the vicinity. On Oct. 22 and 23 there will be an excursion to Glenwood Springs and Colorado Springs, including the ascent of Pike's Peak by the rack railway.

President, James Stannard, Moberly, Mo.
Secretary, S. F. Patterson, Concord, N. H.

AMERICAN SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.—The fifth annual meeting of this society was held Aug. 16 at Toronto, Canada, as noted in our issue of July 29, and a series of very interesting papers was presented by prominent educators. The election of officers for the ensuing year resulted as follows: Pres., J. B. Johnson, Washington University, St. Louis; Vice-Presidents, T. C. Mendenhall, Worcester Polytechnic Institute, and Harry W. Tyler, Mass. Inst. of Technology; Secy., Albert Kingsbury, New Hampshire College of Agriculture; Treasurer, J. J. Flather, Purdue University.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.—The Committee on Sewerage and Sanitation, which will report at the approaching annual convention, are Geo. H. Frost, St. Paul Bldg., New York city; H. J. Stanley, City Engineer, Cincinnati, O.; and Peter Weidner, Pres. Bd. Pub. Wks., Dayton, O. The subject of the report to be submitted will be "The Purification and Disposal of Sewage," and will be principally a resume of what has been accomplished to date rather than discussing what may be done for the relief of American communities. The principles and processes of collection of sewage are now fairly well established and it was the opinion of the committee that the disposal of sewage was a subject of such importance as to warrant the committee in presenting it to the convention. Members of the Society are herewith specially requested to prepare and present papers on sewerage and sanitation, without further or more urgent notice, and hand them to any member of the committee by October 1. Geo. H. Frost, Chairman.

AMERICAN FORESTRY ASSOCIATION.—The autumn meeting will be held at Nashville, Tenn., on Sept. 22, the sessions being held in the Auditorium Building of the Centennial Exhibition. A special excursion will leave Washington, D. C., at 10.43 p. m., Sept. 16, for Asheville, Salisbury and Biltmore, N. C., stopping at the latter place to visit the estate of Mr. George W. Vanderbilt, under the direction of Dr. C. A. Schenck, chief of the forestry department of the estate. A meeting will be held at the Battery Park Hotel, Asheville. The party will then proceed by way of Knoxville and Chattanooga to Nashville, arriving on Sept. 20, thus giving two days for visiting the exhibition, etc.

The following papers will be presented: "The Forest Flora and Conditions of Middle and East Tennessee," George B. Sudworth; "Forests of Tennessee," J. B. Killebrew; "Forest Conditions in the South Atlantic States," J. A. Holmes, State Geologist of North Carolina; "Stream Flow in Relation to Forests," George W. Rafter, M. Am. Soc. C. E.; "Forests and Rainfall," H. A. Hazen, U. S. Weather Bureau; "Effect of Destruction of Forests on Water Courses," D. W. Baird; "Forests and Irrigation," F. H. Newell, U. S. Geological Survey.

AMERICAN BOILER MANUFACTURERS' ASSOCIATION.—The ninth annual convention of this association was held Aug. 3 at Philadelphia. Owing to illness of the president, Mr. Robinson, Mr. Henry J. Hartley, the second vice-president, called the meeting to order. The secretary then read the president's address and submitted his report. A list of questions relating to the methods to be used in improving relations between labor and capital, and the betterment of the organization, was then submitted by Mr. James Lappan. A report from the committee on materials and tests was next considered, in which certain recommendations were made regarding the allowable tensile strength for materials used in boilers and fire boxes. For steel shell plates not exposed to the direct heat, 65,000 lbs. to 75,000 lbs., with an elastic limit of half these values, shell plates exposed or flanged 60,000 to 65,000, with an elastic limit of one-half the ultimate. If exposed and flanged on the greater portion of their periphery the ultimate should be taken at from 55,000 to 62,000 lbs., with one-half as the elastic limit. The value of 25% for elongation was found low in the long series of tests made and the committee suggested the following: "That it is now safe to discard the distinction in regard to thickness as affecting the elongation, and makes the elongation 24 per cent. for the shell plates of the highest tensile strength above given, 27 per cent. for those of medium tensile strength and 30 per cent. for fire-box and flange plates—all on eight inches."

Results of chemical tests were given and further recommendations made. Papers were read and discussed at the Wednesday's session, while on the following day a general discussion of pertinent questions provoked considerable interest. The following officers were elected for the ensuing year: Pres., Henry J. Hartley, Philadelphia; Secy., E. D. Meier, St. Louis, Mo.; Treas., J. R. Hammond, Buffalo, N. Y.; first Vice-Pres., James Lappam, Pittsburg, Pa.; second Vice-Pres., Dan Conley, Cleveland, O.; third Vice-Pres., John Oliver, St. Louis, Mo.

NEW PUBLICATIONS.

THE NEW TARIFF LAWS OF 1897.—The "Canadian Manufacturer," Aug. 6, 1897; Toronto, Ontario.

The issue of the "Canadian Manufacturer" of the above date contains in detail the tariff laws now in force in the United States, Canada, Great Britain and New Foundland. In each case the tariff given is the latest one adopted, and is a true reprint from the official document. This reprint enables an interesting comparison of the tariff policies of the countries named, and is in a convenient form for consultation by manufacturers and merchants engaged in foreign commerce.

CASSIER'S MAGAZINE; MARINE NUMBER.—The Cassier Magazine Co., World Building, New York. 7 x 10 ins.; pp. 300; illustrated; 50 cts.

The August number of this magazine is a special number given up entirely to articles on marine engineering and naval architecture. The titles of the various articles and the names of their authors are as follows: Specialties of Warship Design, by Sir Wm. Henry White, Director of Naval Construction of the British Navy; Fast Torpedo Boats, by A. F. Yarrow; The Problem of Steamship Design, by Henry H. West; The Launching of a Ship, by Robert Caird; Hydraulic Principles Affecting a Floating Ship, by E. P. Purvis; Marine Boiler Furnaces, by D. B. Morison; Steamers for Shallow Rivers, by John T. Thornycroft; The Design and Building of a Steamship, by Archibald Denny; Water Tube Boilers for War Vessels, by Walter M. McFarland; The Naval Weakness of Great Britain, by Sir Charles W. Dilke; The Modern Marine Engine, by Charles E. Hyde; American Sound and River

Steamboats, by Leander N. Lovell; The Auxilliary Machinery of a Warship, by F. Meriam Wheeler; Shipbuilding and Transportation on the Great American Lakes, by Josehp D. Oldham; Steel for Marine Engine Forgings, by R. W. Davenport; The Coaling of Steamships, by S. Howard Smith; Submarine Navigation, by John P. Holland. The several articles, it will be seen, are written by well known experts, and they are all profusely illustrated. For the most part they are written in a popular style, calculated to interest the general reader, as is indeed necessary when it is attempted to discuss such broad subjects within the limits of a magazine article.

TABLE OF DEPTHS FOR CHANNELS AND HARBORS ON THE COASTS OF THE UNITED STATES.—Treasury Department, Coast and Geodetic Survey, Bulletin No. 36. Arranged and compiled by Gershom Bradford, Assistant. Washington: Government Printing Office. 1897. Paper; 9¼ x 11½ ins.; pp. 109. No maps.

This is a new edition of Appendix No. 7, Report for 1883, and includes the latest information. Commencing with Maine and ending with Alaska, the channels and harbors of the Atlantic and Pacific coasts are given in sequence. The information covers the least water, in feet, at mean and spring tide, high and low water; the authority for sounding, and explanatory remarks where these are called for. For many purposes this is an exceedingly useful publication, especially when used in connection with the Coast and Geodetic Survey Charts, the number of each of which is given in every case.

JOURNAL OF THE AMERICAN FOUNDRYMEN'S ASSOCIATION.—The June number of this society publication contains a full report of the proceedings of the Detroit Convention of the Association. In addition to the technical papers read at the convention, which are of a high class and convey information which should be in the hands of every intelligent foundryman, there are reports of the committees on apprenticeship and on the advisability of forming a national defence association, and an address by Mr. Martin Fox, President of the Iron Molders' Union, entitled "Why we Should Have Shorter Hours." These reports and address should be of interest to all students of the labor question. The Foundrymen's Association is doing a good thing, not only for its members, but for society at large in its efforts to establish a uniform and improved apprenticeship system and to harmonize the relations between employers and workmen.

THE CRIPPLE CREEK MINING DISTRICT. Its History, Geology, Mining Statistics, etc.—The "Morning Times," Cripple Creek, Colo. Pamph.; 6 x 9 ins.; pp. 32.

This pamphlet was prepared under the auspices of the Cripple Creek delegation to the International Gold Mining Convention, held in Denver, July 7 to 9. The greater part of it was written by Mr. Charles J. Moore, a mining engineer and manager of several of the Cripple Creek mines. The product of the mines in 1896 was 455,000 oz. of gold, worth over $9,000,000. This was the fifth year of operation in the district, and the product was nearly as large as that of the fifth year of the Witwatersrand district in South Africa, in which far more capital had been invested in developing the mines. Mr. Moore says that the Cripple Creek gold mining district has come to stay, and that for a long time to come it may be relied on as one of the principal factors in the gold product of the United States.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3 1-2 x 6 ins.; 6 x 9 ins., and 9 x 12 ins.)

POWER PUMPS.—The Goulds Mfg. Co., Seneca Falls, N. Y. Pamph.; 8 x 6¾ ins.; pp. 36.

This pamphlet contains a number of half-tone cuts, showing numerous applications of the Goulds triplex pump.

ENGINES AND BOILERS.—James Leffel & Co., Springfield, O. Pamph.; 8 x 5 ins.; pp. 40.

This pamphlet describes chiefly small engines up to 10½ x 12-in. cylinders, cylindrical boilers, vertical and horizontal, and portable boilers and engines.

SUPPLIES FOR GRAIN MILLS, ELEVATORS, ETC.—The Case Mfg. Co., Columbus, O. Pamph.; 7½ x 5½ ins.; pp. 109.

This is a price list of pulleys, gear wheels, clutches, link belt fittings, elevator attachments, scales, etc., used in mills and elevators.

ROLLER MILLS, GRAIN-CLEANING MACHINERY, Etc.—The Case Manufacturing Co., Columbus, O. Pamph.; 7¾ x 5¼ ins.; pp. 139.

This is an illustrated catalogue and price list of roller mills for grinding corn, wheat, rice, etc., and special machinery used in the manufacture of all products made from cereals.

PAVING BRICK AND BRICK PAVING.—New York Brick & Paving Co., Syracuse, N. Y. Paper; 4 x 6 ins.; pp. 27; illustrations.

This catalogue describes the paving brick made by the above company, and contains testimonials regarding it. The same company makes an acid proof brick for lining digesters and for other purposes.

TURBINES.—Burnham Bros., York, Pa. Pamph.; 5 x 7¾ ins.; pp. 112.

This is a catalogue of the well-known Burnham turbine, and includes an interesting historical statement, showing the development of this make of turbine from the French Jonval turbine, which was introduced into the United States in 1839. Mr. Burnham's first patent was taken out in 1859.

GRAIN-HANDLING MACHINERY, Elevating, Conveying and Transmission Machinery.—Webster Mfg. Co., Chicago. Pamph.; 7¾ x 5½ ins.; pp. 211.

This is an illustrated catalogue of millwright's supplies, hoisting and conveying apparatus, rope-drives, etc. The company claims to be the largest manufacturer of grain-handling machinery in the world.

HYDRAULIC TOOLS, CRANES AND MACHINERY.—R. D. Wood & Co. Philadelphia. Pamph.; 10 x 7¼ ins.; pp. 72.

The hydraulic machinery illustrated in this catalogue includes riveting, punching, shearing, bending, lifting, forging and flanging machinery. Hydraulic valves, pipe fittings, accumulators, intensifiers, etc., are also shown.

HOISTING ENGINES AND MINING MACHINERY.—Earle C. Bacon, Havemeyer Building, New York, N. Y. Pamph.; 7½ x 10 ins.; pp. 131; illustrated.

This is a very complete and well-printed catalogue of boilers, engines, cars, buckets, wire rope, sheaves, derricks, ore washers, ore-picking tables, gravity incline machinery, mine pumps, etc., for mines, quarries and contractors' plants. The specialty of Mr. Bacon is the construction and equipment of complete plants.

TACKLE BLOCKS AND SHEAVES.—Boston & Lockport Block Co., Boston, Mass. Cloth; 6½ x 9½ ins.; pp. 112; illustrated.

This is a very complete and well arranged catalogue of the wood and metal tackle blocks, rope sheaves, trucks, and lignumvitae work manufactured by the above firm. Among the articles deserving of particular mention are Ford's self-lubricating differential hoists, and the hollow steel tackle blocks. Very complete price lists are given of each article.

THE MERITS OF LEAD PAINTS AND GRAPHITE PAINTS COMPARED.—Joseph Dixon Crucible Co., Jersey City, N. J. Pamph., 6 x 9 ins.; pp. 18.

Some one interested in red-lead paints has published a pamphlet attacking graphite paints, and this has stirred up the graphite paint men to made a counter attack on red lead. The pamphlet is full of quotations from bridge and railway engineers and others expert in the use of paints in structures exposed to the air, and contains information of value to paint users in general.

GASOLINE ENGINES.—Otto Gas Engine Works, Philadelphia. Pamphlet., 10 x 7 ins.; pp. 28.

This is an illustrated description and price-list of the gasoline engines made by the builders of the well-known Otto gas engine. The regular sizes range from 2 to 110 brake HP. Engines from 3.5 to 13.5 actual HP. are arranged to drive incandescent light dynamos by belt from the flywheel, other sizes are built which drive dynamos by direct connection from the shaft. Gasoline portable, traction and marine engines are also illustrated.

MACHINE TOOLS.—Newton Machine Tool Works, Incorporated. Philadelphia, Pa. Pamph.; 6 x 9 ins.; pp. 180.

The Newton Machine Tool Works is noted for the production of a great variety of special machines, and of machine tools of unusual forms, such as rotary planers, both vertical and horizontal; cold sawing machines, keyseating machines, etc. The ordinary forms of machine tools, such as lathes, planers, drills, etc., seem to be omitted from their catalogue, but there is a remarkable display of milling machines for every conceivable purpose.

GLIMPSES ALONG THE SOUTH COAST.—The Coast Ry. Co., Yarmouth, N. S. Pamph.; 6 x 9 ins.; pp. 22; illustrated.

Under the above title the Coast Ry. Co., of Nova Scotia, describes the beauties of Nova Scotia as a vacation and summer resort, and incidentally shows the advantages which its lines present for reaching the various points of chief interest. Interspersed through this matter are a historical sketch of the settlement of the peninsula, descriptions of the hunting and fishing grounds, hotel accommodations and rates, and various other information likely to be of interest to the tourist and pleasure seeker. The pamphlet is neatly illustrated.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Aug. 26.	Paving.	Brooklyn, N. Y.	Aug. 19
Aug. 26.	Excavation, etc.,	W. Newton, Mass.	Aug. 12
Aug. 26.	Macadamizing.	Kansas City, Mo.	Aug. 12
Aug. 26.	Water-works,	Bancroft, Neb.	Aug. 12
Aug. 26.	School building,	Johnstown, Pa.	Aug. 12
Aug. 26.	Paving, etc,	East Chester, N. Y.	Aug. 19
	Advertised, Engineering News, Aug. 19.		
Aug. 26.	Dam, etc.,	New Bedford, Mass.	Aug. 19
Aug. 26.	Trunk sewer,	Newark, N. J.	Aug. 26
Aug. 27.	Sewers,	Omaha, Neb.	Aug. 26
Aug. 27.	Sewers,	Rochester, N. Y.	Aug. 26
Aug. 27.	Sewers,	St. Louis, Mo.	Aug. 19
Aug. 27.	Bonds, 20-year, 6%,	$8,000, Wadena, Minn.	Aug. 19
Aug. 27.	Pier,	St. Joseph, Mich.	Aug. 19
Aug. 27.	Macadamizing,	East Haddam, Conn.	Aug. 19
Aug. 27.	Tools,	Cleveland, O.	Aug. 26
Aug. 28.	Grading (8⅝ miles),	Cleveland, O.	Aug. 19
Aug. 28.	Road improvement,	Celina, O.	Aug. 19
Aug. 28.	Brick paving,	North Adams, Mass.	Aug. 19
	Advertised, Engineering News, Aug. 19.		
Aug. 30.	Brick paving,	Stamford, Conn.	Aug. 19
Aug. 30.	Street grading, etc.,	New York, N. Y.	Aug. 19
Aug. 30.	Brick paving,	La Grange, Ill.	Aug. 19
	Advertised, Eng. News, Aug. 19 and 26.		
Aug. 30.	Paving, etc.,	Dayton, O.	Aug. 19
Aug. 30.	Sewers,	New York, N. Y.	Aug. 19
Aug. 30.	Electric light plant, etc.,	Scranton, Miss.	Aug. 5
	Advertised, Eng. News, Aug. 5 to 19.		
Aug. 30.	Water bonds, etc. ($25,000),	Scranton, Miss.	Aug. 5
	Advertised, Eng. News, Aug. 5 to 19.		
Aug. 30.	Water-works, etc.,	Scranton, Miss.	Aug. 5
	Advertised, Eng. News, Aug. 5 to 19.		
Aug. 30.	Brick paving,	Cincinnati, O.	Aug. 12
Aug. 30.	Trunk sewer,	Cincinnati, O.	Aug. 12
Aug. 30.	Retaining wall,	Cincinnati, O.	Aug. 12
Aug. 30.	Bonds,	Canton, O.	Aug. 12
Aug. 30.	Paving,	Toledo, O.	Aug. 19
Aug. 30.	Asphalt paving,	West Point, N. Y.	Aug. 19
Aug. 30.	Grading, etc.,	Mount Vernon, N. Y.	Aug. 19
Aug. 30.	Asphalt paving,	New York, N. Y.	Aug. 19
Aug. 30.	Brick and pipe sewers,	Toledo, O.	Aug. 19
Aug. 30.	Sewers,	Mount Vernon, N. Y.	Aug. 19
Aug. 30.	Wooden bridge,	Fork, Minn.	Aug. 26
Aug. 30.	Sewer,	Lima, O.	Aug. 26
Aug. 30.	Paving,	Rochester, N. Y.	Aug. 26
Aug. 30.	Paving, etc.,	Baltimore, Md.	Aug. 26
Aug. 30.	Pipe sewers,	Goderich, Ont.	Aug. 26
Aug. 30.	Electrical bridge equipment,	Brooklyn, N. Y.	Aug. 26
Aug. 31.	Highway (2,664 ft.),	New Britain, Conn.	Aug. 26
Aug. 31.	Macadamizing,	Portland Conn.	Aug. 26
Aug. 31.	Macadamizing (4,550 ft.),	Rocky Hill, Conn.	Aug. 26
Aug. 31.	Pipe sewer,	Jackson, Mich.	Aug. 26
Aug. 31.	Sewers,	Riverside, Cal.	Aug. 26
Aug. 31.	Macadamizing, etc.,	Keokuk, Ia.	Aug. 26
Aug. 31.	Water-works contracts (4),	Boston, Mass.	Aug. 19
	Advertised, Eng. News, Aug. 19 and 26.		
Aug. 31.	Water-works,	Crowley, La.	Aug. 19
Aug. 31.	Wells (2),	Holly Springs, Miss.	Aug. 19
Aug. 31.	Paving, etc.,	Keokuk, Ia.	Aug. 19
Aug. 31.	Bridge bonds ($64,000),	Paterson, N. J.	Aug. 12
Aug. 31.	Brick pvg., (1,200 lin.ft.),	Gibsonburg, O.	Aug. 12
Aug. 31.	Hire of snag boat,	New Orleans, La.	Aug. 12
Aug. 31.	Building foundations,	Philadelphia, Pa.	Aug. 5
Aug. 31.	Dredging, etc.,	St. Mary's River, Mich.	Aug. 5
	Advertised, Eng. News, Aug. 5 to 26.		
Aug. 31.	Hire dredging plant,	Chattanooga, Tenn.	Aug. 5
	Advertised, Eng. News, Aug. 5 to 26.		
Aug. 31.	Sewers,	Oneida, N. Y.	Aug. 19
	Advertised, Engineering News, Aug. 19.		
Sept. 1.	Pumping eng. (3,000,000 gals.),	Chicago.	Aug. 5
	Advertised, Eng. News, Aug. 5 to 26.		
Sept. 1.	Sewer plans,	Stevens Point, Wis.	Aug. 12
Sept. 1.	Model barges,	St. Louis, Mo.	Aug. 12
Sept. 1.	Garbage disposal contract,	Findlay, O.	Aug. 12
Sept. 1.	Removal of debris,	New York, N. Y.	Aug. 19
	Advertised, Eng. News., Aug. 19 and 26.		
Sept. 1.	Pile bridge (30-ft.),	La Moure, N. D.	Aug. 19
Sept. 1.	Steel bridge,	Framingham, Mass.	Aug. 19
Sept. 1.	Bridge piers,	Mattoon, Ill.	Aug. 19
	Advertised, Eng. News, Aug. 19 and 26.		
Sept. 1.	Bridge bonds ($190,000),	Youngstown, O.	Aug. 26
Sept. 1.	Building work,	Toronto, Ont.	Aug. 26
Sept. 1.	Highway,	East Windsor, Conn.	Aug. 26
Sept. 1.	Asphalt paving,	Brooklyn, N. Y.	Aug. 26
Sept. 1.	Street improvements,	Chicago, Ill.	Aug. 26
Sept. 1.	Macadamizing (2 miles),	Kansas City, Mo.	Aug. 26
Sept. 1.	Gravel roadways,	Toronto, Ont.	Aug. 26
Sept. 1.	Cast-iron water gates (2),	Chicago, Ill.	Aug. 26
Sept. 1.	Building fire pump,	New York, N. Y.	Aug. 26
Sept. 1.	Court house,	Paola, Kan.	Aug. 26
Sept. 1.	Masonry dams, etc.,	Branford, Conn.	Aug. 26
	Advertised, Engineering News, Aug. 26.		
Sept. 1.	Improving wasteway,	Meriden, Conn.	Aug. 26
	Advertised, Engineering News, Aug. 26.		
Sept. 1.	Broken stone,	Agawam, Mass.	Aug. 26
Sept. 2.	Bridge substructure,	Ludlow, Mass.	Aug. 26
Sept. 2.	Bridge extension, etc.,	New York, N. Y.	Aug. 26
Sept. 2.	Sewers,	New York, N. Y.	Aug. 26
Sept. 2.	Sidewalks, etc.,	New York, N. Y.	Aug. 26
Sept. 2.	Brick paving,	Cleveland, O.	Aug. 26
Sept. 2.	Water-works,	Marathon, N. Y.	Aug. 19
	Advertised, Engineering News, Aug. 19.		
Sept. 2.	Subway,	Boston, Mass.	Aug. 12
	Advertised, Eng. News, Aug. 12 to 26.		
Sept. 2.	Sidewalks,	Findlay, O.	Aug. 5
Sept. 2.	Forged steel projectiles,	War Department.	Aug. 5
	Advertised, Eng. News, Aug. 5 to 26.		
Sept. 3.	Canal improvements,	Albany, N. Y.	Aug. 5
	Advertised, Eng. News, Aug. 12 and 19.		
Sept. 3.	Erie Canal work,	Albany, N. Y.	Aug. 5
	Advertised, Eng. News, Aug. 12 and 19.		
Sept. 3.	Garbage disposal contract,	Chicago, Ill.	Aug. 12
	Advertised, Eng. News, Aug. 12 to 26.		
Sept. 3.	Officers' quarters,	Ft. Leavenworth, Kan.	Aug. 19
Sept. 3.	Highway,	Tuscumbia, Ala.	Aug. 26
Sept. 4.	Pumping station,	Baltimore, Md.	Aug. 26
Sept. 4.	Bridge,	Provo City, Utah.	Aug. 26
Sept. 4.	Macadamizing,	Vernon, Conn.	Aug. 26
Sept. 4.	Macadamizing,	Darby, Pa.	Aug. 26
Sept. 4.	Macadamizing, etc.,	Madisonville, O.	Aug. 26
Sept. 4.	Brick paving, etc.,	Mason City, Ia.	Aug. 26
	Advertised, Engineering News, Aug. 26.		
Sept. 4.	Sewers,	Cincinnati, O.	Aug. 19
Sept. 4.	Superstructure pumpg. statn.,	Baltimore.	Aug. 26
Sept. 6.	Oil engines, etc.,	Willet's Point, N. Y.	Aug. 19
	Advertised, Eng. News, Aug. 19 to Sept. 2.		
Sept. 6.	Bridge,	Quincy, Cal.	Aug. 5
Sept. 6.	Water-works,	Elizabeth, N. C.	Aug. 5
Sept. 6.	Bonds,	Townsend, Wash.	Aug. 12
Sept. 6.	Pumping engine,	Chicago, Ill.	Aug. 12
	Advertised, Eng. News, Aug. 12 to 26.		
Sept. 6.	Hospital building,	Oakland, Cal.	Aug. 12
Sept. 6.	Electric light franchise,	Chico, Cal.	Aug. 19
Sept. 6.	Grading,	St. Joseph, Mo.	Aug. 26
Sept. 6.	Paving,	Houston, Tex.	Aug. 26
Sept. 6.	Building repairs,	Topeka, Kan.	Aug. 26
Sept. 6.	Repairing pumps, etc.,	Williamantic, Conn.	Aug. 26
	Advertised, Eng. News, Aug. 26 and Sept. 2.		
Sept. 7.	Iron work,	Brooklyn, N. Y.	Aug. 26
Sept. 7.	W.-w'ks bonds ($12,500),	Huntsville, Tex.	Aug. 26
Sept. 7.	Drainage and grading,	Marysville, Cal.	Aug. 26
Sept. 7.	Court house,	Port Clinton, O.	Aug. 26
Sept. 7.	Bridge,	Madera, Cal.	Aug. 26
Sept. 7.	Iron work,	Brooklyn, N. Y.	Aug. 26
Sept. 7.	Street improvement bonds,	Hamilton, O.	Aug. 26
Sept. 7.	Grading, etc.,	Marysville, Cal.	Aug. 26
Sept. 7.	Pipe sewers,	Hammond, Ind.	Aug. 26
Sept. 7.	Cement ditch, 6,425 ft.,	Riverside, Cal.	Aug. 19
Sept. 7.	Electric light plant,	Bay City, Mich.	Aug. 19
Sept. 7.	Dredging in Galena River,	Ill.	Aug. 12
	Advertised, Eng. News, Aug 12 to Sept. 2.		
Sept. 7.	Three 40-ft. bridges,	Colfax, Wash.	Aug. 12
Sept. 7.	Steel water-tower,	Jacksonville, Fla.	Aug. 12
	Advertised, Engineering News, Aug. 12.		
Sept. 7.	Water filters,	Washington, D. C.	Aug. 5
	Advertised, Eng. News, Aug. 5 to 26.		
Sept. 7.	Brick paving,	Cincinnati, O.	Aug. 19
Sept. 7.	Irrigation bonds,	Lancaster, Cal.	Aug. 26
Sept. 7.	Grading and drainage,	Marysville, Cal.	Aug. 26
Sept. 7.	Park improvements,	New York, N. Y.	Aug. 26
Sept. 8.	Bridge substructures (4),	Chicago, Ill.	July 29
	Advertised, Eng. News, July 22 to Aug. 12.		
Sept. 8.	Reformatory building,	Tallahassee, Fla.	Aug. 26
Sept. 8.	Highway bridges (2),	Stapleton, S. I.	Aug. 26
Sept. 8.	Bonds ($30,000),	Parkersburg, W. Va.	Aug. 26
Sept. 8.	Road impvt bonds,	Stapleton, N. Y.	Aug. 26
Sept. 8.	Brick paving,	Cincinnati, O.	Aug. 26
Sept. 8.	Street bonds ($5,000),	Mt. Healthy, O.	Aug. 26
Sept. 8.	Sewers,	Marshall, Mo.	Aug. 26
Sept. 9.	Library,	New York, N. Y.	Aug. 26
	Advertised, Eng. News, Aug. 26 and Sept. 2.		

Sept. 9. Electric wiring, Columbia, Mo. .....Aug. 26
Sept. 9. Stone for dikes, Hudson River, N. Y....Aug. 12
Advertised, Eng. News, Aug. 12 to Sept. 2.
Sept. 9. Gun emplacements, Sullivan Island, S. C. Aug. 12
Advertised, Eng. News, Aug. 12 to Sept. 2.
Sept. 9. Sewers, Cleveland, O.... .....Aug. 19
Sept. 10. Breakwater piers (2,700 ft.), Duluth, Minn. July 15
Advertised, Eng. News, July 15 to Sept. 2.
Sept. 10. Heating and ventilating, Youngstown, O. .Aug. 19
Advertised, Eng. News, Aug. 19 and 26.
Sept. 10. Bridge bonds ($90,000), Cleveland, O. ..Aug. 26
Sept. 10. Bridge, Redding, Cal. .....Aug. 26
Sept. 10. Garbage disposal contract, Minneapolis..Aug. 12
Advertised, Eng. News, Aug. 12 and 19.
Sept. 11. Reservoir (200,000 galls.), Millerstown, Pa. Aug. 26
Sept. 11. Grille work, etc., Troy, N. Y.....Aug. 12
Sept. 13. Bridge, Idaho City, Idaho .....Aug. 12
Sept. 13. Brick sewer, Toledo, O..... .....Aug. 19
Sept. 13. Bridge, Hailey, Ida. .....Aug. 26
Sept. 13. Hospital building, Hanford, Cal. .....Aug. 26
Sept. 13. Pipe sewers, Somerville, N. J. .....Aug. 26
Advertised, Eng. News, Aug. 26 and Sept. 2.
Sept. 14. Electric lighting contract, Louisville, Ky. Aug. 26
Advertised, Eng. News, Aug. 26 to Sept. 9.
Sept. 14. Bridge, Moscow, Ida. .....Aug. 26
Sept. 14. Highway bridge, Fresno, Cal. .....Aug. 26
Sept. 14. Sewer system, Augusta, Ga. .....Aug. 26
Advertised, Eng. News, Aug. 26 and Sept. 2.
Sept. 14. Battle-ships (3), Washington, D. C.....July 8
Sept. 14. Laying water pipe, Binghamton, N.Y...Aug. 26
Advertised, Eng. News, Aug. 26 to Sept. 9.
Sept. 14. Water-works, Augusta, Ga.....Aug. 26
Advertised, Engineering News, Aug. 26.
Sept. 15. Asylum building, Winfield, Kan.....Aug. 26
Sept. 15. Masonry bridge, Napa, Cal. .....Aug. 26
Sept. 15. Trunk sewer, Cincinnati, O. .....Aug. 26
Sept. 15. Macadamizing, etc., Cincinnati, O. .....Aug. 26
Sept. 16. Sewer, Cleveland, O. .....Aug. 26
Sept. 16. Bridge, New York, N. Y..... .....Aug. 19
Sept. 16. Lighting plant, Ironton, O. .....Aug. 26
Sept. 17. Money vault, Boston, Mass. .....Aug. 26
Advertised, Eng. News, Aug. 26 and Sept. 2.
Sept. 17. Sewer, Cleveland, O. .....Aug. 26
Sept. 20. Hospital building, Winnemucca, Nev.....July 22
Sept. 20. Sewers, Evanston, O. .....Aug. 26
Sept. 22. Supplies for Fort Pickens, Fla.....Aug. 26
Advertised, Eng. News, Aug. 26 to Sept. 16.
Sept. 22. Electric light plant, Fort Pickens, Fla...Aug. 26
Advertised, Eng. News, Aug. 26 to Sept. 16.
Sept. 23. Street lighting, Montgomery, Ala. .....Aug. 26
Sept. 23. Buildings, Fort Hamilton, N. Y. H.....Aug. 26
Advertised, Eng. News, Aug. 26 to Sept. 16.
Sept. 23. Illinois & Miss. Canal (8 miles), Chicago. Aug. 26
Advertised, Eng. News, Aug. 26 to Sept. 16.
Sept. 24. Building at Jefferson Barracks, Mo.....Aug. 26
Advertised, Eng. News, Aug. 26 to Sept. 16.
Sept. 25. Dredging in Va., Washington, D. C.....Aug. 26
Advertised, Eng. News, Aug. 26 to Sept. 16.
Sept. 26. Mess hall, Willets Point, N. Y. .....Aug. 26
Advertised, Eng. News, Aug. 26 to Sept. 16.
Sept. 26. Court house plans, Worcester, Mass. ....Aug. 5
Oct. 1. Electric light plant, Herve, Belgium.....July 8
Oct. 14. Replating hull of snag boat, Cincinnati, O..Aug. 26
Oct. 18. Scow and boat, Sabine Pass, Tex. .....Aug. 26
Nov. 18. Water-works (purchase of), Para, Brazil..Aug. 12
Nov. —. Plans for public building, Mexico, Mex...May 6

RAILWAYS.

ARKANSAS.—Reports state that construction has begun on a railway from Homer, La., to Magnolia, Ark., a distance of 40 miles. This line will connect the Vicksburg, Shreveport & Pacific R. R. at Gibsland, La., with the St. Louis Southwestern Ry. at McNeal Station, Ark.

BIRMINGHAM, SELMA & NEW ORLEANS.—A citizen's meeting was held here Aug. 12 in order to take measures to extend this line, now running to Martins, 30 miles farther to Linden, Ala. The following committee was appointed to push the matter: S. D. Holt, V. B. Atkins, C. W. Hooper, Wm. Ullman, E. Lamar and M. J. Meyer, of Selma, Ala. Pres., A. W. Jones, Selma.

BOWLING GREEN & NORTHERN.—T. O. Rawlings & Co., Louisville, Ky., writes us that they will be likely to want 60-lb. rails in October for the first 32 miles of this projected line. The road will be standard gage, and when completed will connect with the Illinois Central at Leitchfield, Ky.

BURLINGTON & MISSOURI RIVER R. R. IN NEBRASKA.—I. S. P. Weeks, Ch. Engr., Lincoln, Neb., informs us that current reports stating that this company will extend its lines across Colorado to Salt Lake have no foundation whatever.

CALIFORNIA SOUTHERN.—Press reports state that this line, which is in course of construction from Biggs Station, on the Oregon Railway & Navigation Co.'s line, south through Sherman, Wasco and Crook counties, to Pineville, a distance of 120 miles, will be put in operation about September 5, as far as Wasco, Ore. D. C. O'Reilly, at present assistant general agent of the Oregon Railway & Navigation Co., will be general manager of the new road.

COLORADO.—A company was formed Aug. 9 near Monte Vista, Colo., with a capital stock of $50,000, to construct a railway from Hooper 13 miles west into the grain belt of San Luis Valley. The directors are: J. M. Warden, J. L. Hurt, J. O. Abrams, E. Worth, M. M. Suttley and J. W. Mills.

COLUMBUS, LANCASTER & WELLSTON.—Samuel Effinger, Tarlton, O., informs us that nothing has been accomplished towards the completion of this line since track was laid to South Bloomingville, O. The road has passed into the hands of the third receiver, who has ordered the same to be sold Sept. 1 upon the demand of the United States Court, Southern District of Ohio.

EASTERN RY. OF MINNESOTA.—This company is making extensive improvements in its yards and docks at West Superior, in order to more easily handle the large wheat crop which is now being harvested in the Red River Valley. J. Rice, Supt., Superior, Wis.

ELM VALLEY.—This company was incorporated Aug. 17, with a capital stock of $16,000, to construct and maintain 16 miles of railway from McKinney, Tex., in the direction of Bush's Store, on the west line of Collin county. The incorporators are: F. W. Ford, F. M. Thompson, S. H. Cole, P. E. Dayton, E. W. Kirkpatrick, T. B. Wilson, R. Stiff, R. C. White, L. P. Adamson and I. E. Bates, all of McKinney.

FLORIDA, ALABAMA & NORTHERN.—This company was incorporated in Alabama Aug. 16 by W. B. Wright, J. E. Hughes, V. H. Wright, J. J. Sullivan, J. S. Reese, E. E. Reese and others. The projected line will be a lumber railway between Pensacola and Elba, Fla.

GALVESTON TERMINAL.—The Galveston Terminal & Warehouse Co. was incorporated in Texas Aug. 13, with a capital stock of $50,000, to own and maintain a terminal railway, warehouses, etc., in Galveston, Tex. The incorporators are: J. Lobit, J. H. Langbehn and John D. Fearhake.

GREAT NORTHERN.—Work on the tunnel of the Great Northern Ry., in the Cascade Mountains in Washington, was expected to commence Aug. 20. The tunnel will be 2½ miles long, 16 ft. wide, and 23 ft. high, and will cost $2,000,000. It will reduce the ascent by 1,000 ft. and obviate the necessity of using the present switch-back, which is 12 miles long. Willard Beahan, Supt. of Construction; J. F. Stevens, Ch. Engr., St. Paul, Minn.

HONDURAS.—Consul Jarnigan, at Utilla, reports that the government has granted a concession to an American syndicate for the construction of a railway from Puerto Cortez to the Bay of Fonseca, on the Pacific Coast, with such branches as it desires. The Honduras Government concedes to the syndicate the railway and all its appurtenances now being operated for about 30 miles from Puerto Cortez, the right of way to Fonseca Bay and a subsidy of 3,200 acres of land for each mile of road built and operated by the company.

KANSAS CITY & EASTERN.—This company was incorporated in Missouri Aug. 13, with a capital stock of $50,000. It is proposed to build and operate a railway between Kansas City and Leeds, a distance of five miles. The incorporators are: George Hoffman, Chas. B. Adams, John Hoffman, Henry Pfeiffer and B. F. Robinson.

KANSAS CITY, OSCEOLA & SOUTHERN.—Reports state that this company is now making surveys preparatory to extending its line to Bolivar, about 40 miles from Osceola, Mo., where it will connect with the St. Louis & San Francisco Ry. B. S. Josselyn, Gen. Mgr., Clinton, Mo.

KANSAS & SOUTHEASTERN. This company has been organized in Kansas, with a capital stock of $100,000, to operate a railway from South Haven or Portland, Kan., southeasterly to or near the town of Parker, Okla. The directors are: Francis S. Eaton, A. N. Brown, Charles L. Brown and Charles F. Leech, Arkansas City, Kan.; G. H. Whitcomb, Topeka, Kan.

LEXINGTON & NORTHWESTERN.—This company has been incorporated, with a capital stock of $100,000, to build a railway from Lexington, Okla., northwest about 14 miles to Norman, on the Atchison, Topeka & Santa Fe. The incorporators are: A. D. Goodenough, F. W. Hawes, V. E. Ray, W. T. James and others.

LOS ANGELES & PASADENA.—This company has been incorporated at Phoenix, Ariz., with a capital stock of $1,000,000, to construct a line from Los Angeles to Pasadena, Cal. The incorporators are: Andrew McNally and D. B. Dewey, of Chicago; J. W. Hugers, Pasadena, Cal.; Gen. M. H. Sherman, Phoenix, Ariz.

MILWAUKEE, BENTON HARBOR & COLUMBUS.—E. C. Hurd, Ch. Engr., Benton Harbor, Mich., informs us that preliminary surveys for this line have been completed and one-half of the right of way secured; construction will probably commence in the fall. When fully completed the road will be 42 miles long, running from Benton Harbor, Mich., to Napanee, Ind., via Buchanan and South Bend. This line, formerly called the St. Joseph Valley Ry., is already built to Buchanan, Mich. Pres., H. H. Patterson, Benton Harbor.

OHIO RIVER & CHARLESTON.—Our correspondent informs us that besides the extension of this line from Blacksburg to Gaffney, S. C., which will be completed about Sept. 15, there are three other extensions decided upon. The first will be from Gaffney to Spartanburg, S. C.; the second, from Spartanburg to Sumter, and, after the completion of this work, it is expected to construct an extension from Marion, N. C., to Johnson City, Tenn. If these connections are built the railway will have a complete system in the three states in which it operates.

PALMETTO & GULF.—This company has been incorporated in Louisiana to construct a railway from Palmetto, on the Texas & Pacific Ry., through St. Landry to St. Martinville and New Ibernia, La., a distance of about 75 miles.

VENTURA & OJAI VALLEY.—Reports state that Grant Bros., San Francisco, Cal., have been awarded the contract for constructing this railway from Ventura north to Nordhoff, Cal., 25 miles distant. Work to be completed March 1, 1898. Capt. John Cross, Pres., Los Angeles, Cal.

WISCONSIN.—Press reports state that the N. C. Foster Lumber Co., of Fairchild, Wis., has a party of surveyors running lines near Greenwood, preparatory to the building of a railway into Greenwood and eventually through to Abbottsford. It will probably build a bridge across Black River southwest of Greenwood and run in its track early this fall. A construction crew of 30 men is at work relaying the old track and raising the roadbed.

STREET AND ELECTRIC RAILWAYS.

BANGOR, ME.—The New England Construction Co. has begun work on the construction of the Bangor, Hampton & Winterport Electric Ry. The road will be 54 miles long, passing through Winterport, Prospect, Monroe and other villages.

BIDDEFORD, ME.—Surveys have been completed for an electric railway from this city to Bonny Eagle, 18 miles. It will be necessary to bridge the Saco River if the road is continuous between the points named.

SACO, ME.—The board of aldermen has granted a franchise to the Saco River Electric R. R., to run its tracks through North and Elm Sts. Oliver S. Downing, Boston, is interested.

WATERFORD, ME.—Work has been begun on the new 20-mile electric road from Norway to this city.

EXETER, N. H.—The Exeter St. R. R. Co. has asked permission of the railroad commissioners to extend its line and to raise the money therefor.

BURLINGTON, VT.—Sept. 2 is the date set for the hearing of the petition of the Burlington Traction Co. for a right of way.

AUBURN, MASS.—An electric road is proposed in this town. Jos. P. Eaton, W. A. Warren and Andrew Thayer are interested.——Harold Parker, of Parker & Bateman, civil engineers, of Clinton, is interested in a project to build an electric road from Worcester to Webster, and will petition the selectmen of this town for a right of way.

EXETER, MASS.—The Exeter St. Ry. Co. will ask the railroad commissioners for permission to issue $25,000 in bonds and $25,000 in stock to defray the cost of laying additional track in this town.

FRAMINGHAM, MASS.—The Framingham Union St. Ry. Co. proposes to equip the Saxonville division of its road with electricity as soon as possible.

HOLYOKE, MASS.—The Holyoke St. Ry. Co. has been granted a franchise for an extension of its lines up Chicopee St.

LEOMINSTER, MASS.—The Worcester & Clinton St. Ry. Co. was recently granted a hearing on its petition for a franchise for an electric railway line from Lancaster Mills to the Boylston town line. A. S. Paton may be addressed.

MIDDLEBORO, MASS.—The Middleboro & Bridgewater St. Ry. Co. has petitioned the board of county commissioners to rebuild the Titicut bridge over the Taunton River. Saml. P. Gates may be addressed.

MILLBURY, MASS.—The Worcester & Blackstone Valley Electric R. R. has petitioned for a franchise to enable it to connect its rails with those of the Worcester & Suburban St. Ry. in order to form a continuous line from Worcester to Farnumsville.

NEWTON, MASS.—The Wellesley & Boston St. Ry. Co. intends to construct a line of road parallel with the Newton St. Ry. from West Newton to Newton Corner, and to built a loop about the bank building in this place. Pres., J. L. Richards.

ROCKLAND, MASS.—The Bridgewater, Whitman & Rockland Electric Ry. Co. will erect a new car house on West Water St. in this city.

SOUTH FRAMINGHAM, MASS.—Surveys are being made for the South Middlesex Electric Ry., which will connect this city with Marlboro.

SPRINGFIELD, MASS.—The Springfield & Southwestern Electric St. Ry. Co. has decided upon a location and the grading has been nearly completed from the state line to Suffield Centre. Hurd & Co., Boston, have the contract for 10,000 ties to be used in West Springfield and Agawan, and W. C. Reynolds, East Haddam, Conn., has the contract for the southern portion of the line. Two power houses will be built. Pres., Horace T. Ford, Suffield, Conn.

WEST NEWBURY, MASS.—The People's St. Ry. Co. has filed a $10,000 bond as required by the council, that it will complete the road within 60 days, with an extra allowance of 30 days if work is commenced at once. Pres., Chas. Odell; Secy., Robt. P. Clapp.

WOLLASTON, MASS.—The Quincy & Boston St. Ry. Co. has commenced work on a franchise granted Feb. 7, 1888.

HARTFORD, CONN.—The Park St. Ry. Co. has asked permission to double-track its lines on Park and Jefferson Sts., and to widen its tracks on a number of other streets.

CATSKILL, N. Y.—The Catskill Electric Ry. Co. has secured a private right of way from Jefferson Heights to Cairo and will begin construction at once. The company had previously obtained a franchise through the streets of this city to Jefferson Heights. D. W. Sharpe may be addressed.

COHOES, N. Y.—The residents of Adams Island have petitioned the Troy City Ry. Co. to extend its tracks to Bridge and Park Aves. E. A. Bernard and Peter Shortsleeves are interested.

COXSACKIE, N. Y.—Geo. F. Chism, civil engineer, Albany, writes us that the Green County Traction Co. is receiving ties for the construction of its railway. Doubts, however, are entertained of its being begun this year.

FAR ROCKAWAY, N. Y.—The railroad commissioners will consider an application of the Ocean Electric Ry. Co. for permission to begin the construction of its road.

GREENBUSH, N. Y.—Geo. F. Chism, Albany, informs us that the Greenbush & Nassau Electric Ry. Co. will probably not build its line this year.

GLOVERSVILLE, N. Y.—The Mountain Lake Electric R. R. Co. has applied for a franchise to extend its road from its present terminus on North Main St. to West Fulton St.

HOOSICK FALLS, N. Y.—An electric road is proposed between this place and Bennington, Vt. It will be built by the consolidation of the Bennington Electric R. R. and the Hoosick Ry. Co. Geo. E. Green is President of the former and a director of the latter company.

MANLIUS, N. Y.—Work has been begun on the dam for the power house in this place of the proposed Syracuse & Suburban R. R.

NEW YORK, N. Y.—The railroad commissioners have granted the applications of the Second Ave. R. R. Co. and the Forty-second St., Manhattanville & St. Nicholas Ave. R. R. Cos. for permission to change their motive power to the electric conduit system.

NIAGARA FALLS, N. Y.—An electric road on Grand Island in the Niagara River is proposed. J. M. Brinker is interested.

OLEAN, N. Y.—It is reported that the Olean, Rock City & Bradford Electric Ry. Co. will have to build into the city, as it is unable to make a satisfactory arrangement with the Olean St. Ry. Co. for the use of their tracks.

ONEONTA, N. Y.—Work is progressing satisfactorily on the electric road in this village, and there is talk of extending the line to Franklin. Pres., Frank Gould; Secy. & Treas., H. H. Getman.——The railroad commissioners have given permission to the Oneonta & Otsego Valley R. R. Co. to operate its road by electricity.

OSWEGO, N. Y.—It is stated that M. B. Richardson and C. S. Shepard will make application to the council for a franchise for a line of branch track in East First St., from Bridge to Oneida St.

SYRACUSE, N. Y.—The Rapid Transit Ry. Co. is preparing to build 10 miles of additional track.

TOTTENVILLE (S. I.), N. Y.—The Midland R. R. Co. has been granted a franchise to build and operate an extension to its line along the Freshkill road, from the Southfield town line to this place. Secy., E. G. Wightman.

WATERFORD, N. Y.—The Stillwater & Mechanicville St. Ry. Co. has applied to the highway commissioners of Halfmoon for a permit to extend its electric railway to the Waterford town line.

WHITE PLAINS, N. Y.—The stockholders of the New York, Elmsford & White Plains Electric R. R. Co. met in this place recently and organized by electing directors. The road will be completed to the Hudson River R. R. station in Tarrytown at once, after which the line will be pushed to Mamaroneck. Among the directors are: Saml. R. Bullock, Philadelphia, Pa.; H. F. Jennings, Wm. D. MacQuestion, Chas. B. French, Mt. Vernon.

HACKENSACK, N. J.—The Hackensack Improvement Commission, to whom was referred the petition of the Union Traction Co. to construct an electric road through certain streets of the town, has granted it a 30-year franchise upon the payment of $50,000 and the agreement to pave the streets through which it passes.

RED BANK, N. J.—A satisfactory arrangement has been made with the property owners by which the Red Bank, Atlantic Highlands & Long Branch Electric Ry. may now be constructed.

WOODBURY, N. J.—It is reported that the Park Association of National Park will construct an electric railway from that place to this town.

BEAVER FALLS, PA.—The contract for building the Riverview Electric Ry. in this place has been sublet by Simon Harrold to Funkhouser & Coates for $30,000. Pres., E. L. Hutchinson.

CLARION, PA.—A company is being formed to construct a projected electric railway from Clarion to New Bethlehem.

COLLEGEVILLE, PA.—The Collegeville Electric St. Ry. Co. has been granted a right of way by the town council.

DERRY, PA.—Hugh Keogh, Lancaster, and other eastern capitalists are interested in an electric street railway, 15 miles in length, from Derry to Latrobe, Whitney and Youngstown.

EDINBORO, PA.—An electric road is proposed in this place to run to Cambridge and Erie. P. A. Gibson is the promoter.

FLOURTOWN, PA.—A press report states that the trolley line will shortly be extended up the Bethlehem pike from Chestnut Hill to this place, providing the consent of certain property holders can be obtained.

HELLERSTOWN, PA.—An electric road is proposed between this place and South Bethlehem. Pascoe & Crilly, Allentown, are the projectors.

McKEESPORT, PA.—Horace G. Crosby, Assistant Gen. Mgr. National Tube Works Co., has purchased the McKeesport, Duquesne & Wilmerding St. Ry. at receiver's sale for $175,000.

MONTOURSVILLE, PA.—Jas. N. Blackwell has been awarded the contract for the stone for the foundation of the power-house of the Montoursville Electric Ry., and G. Waltz for the entire construction of the building. Pres., E. A. Tennis.

WAYNESBORO, PA.—A party of promoters has been in conference with the township trustees with the view to acquiring a right of way for a 15-mile electric railway through the Blue Mountains to Pen Mar, Md. Simon P. Schott, Winfield S. Cahill and Chas. J. Wiener are interested.

WEST NEWTON, PA.—The Second Ave. Traction Co., of Pittsburg, is negotiating the purchase of the West Newton & Northern St. Ry., according to report, to connect the lines at McKeesport with this place. The new line will be 16 miles long and will cost $150,000. It will be known as the McKeesport & West Newton R. R., and will run through the borough of Versailles, for which a right of way has been obtained, and will cross the Youghiogheny River on the Boston bridge to West Newton. Homer H. Swaney is the attorney for the company.

WEST SCRANTON, PA.—The Scranton St. Ry. Co. has been granted permission to make extensions in this place.

WILMINGTON, DEL.—The Wilmington City Ry. Co. has presented a petition to the street and sewer department protesting against allowing the Wilmington & Brandywine Springs Ry. Co. to construct a line within the city limits on the grounds that it would impair the efficiency of the present street car system. Preston Lea is the President of the former company.

BALTIMORE, MD.—It is reported that the Colsolidated Ry. Co. will build an extension of its Linden Ave. line along Whiteloo St. to connect with the Druid Hill Ave. line.

TAKOMA PARK, D. C.—A movement is on foot to have the electric railway now under construction by the Baltimore & Washington Transit Co. from this place to Sligo Creek extended 12 miles to Sandy Springs, at a cost of $215,000. Pres., N. Winslow Williams, Baltimore.

MONTEREY, VA.—The Staunton St. Car Co. is considering extending its line from Staunton to this place, at a cost of $100,000 to $150,000, of which it will pay half if the balance is raised by subscription. The question will be submitted to the people of Staunton at an early date of voting $25,000 for this purpose.

WHEELING, W. VA.—L. G. Hallock has been awarded the contract for the construction of the city end of the Wheeling & Elm Grove R. R. The road will run from Wheeling to Elm Grove, 8 miles, and the motive power will be electricity. Work is to be completed by Nov. 1, and the cost will be about $60,000. Pres., Anton Reymann; Engrs., Brown & Hazlett.

CHARLESTON, S. C.—It is reported that the Summerville St. Ry. Co. will apply for a charter to build a line connecting Summerville with this city.

GAINESVILLE, GA.—An application for a charter to build a street railway in this city has been filed with the secretary of state. The road will be 20 miles long and will extend to White Sulphur Springs, 17 miles east of the city.

TAMPA, FLA.—F. A. Solomonson and others have been granted a franchise for an electric street railway in this city.

BIRMINGHAM, ALA.—The Birmingham & Gate City Ry. Co. has purchased the property of the East Birmingham Land & Ry. Co. for $30,000 worth of stock in the former company.

NEW ORLEANS, LA.—The Crescent City R. R. Co. is building an extension from Carrollton Ave. to the city limits. H. P. Dart may be addressed.

CHATTANOOGA, TENN.—Sam. W. Divine is interested in the construction of a proposed electric railway from this city to Chickamauga Park. The contract for grading and tie and rail laying is said to have been let.

KNOXVILLE, TENN.—The Knoxville St. R. R. Co. proposes to build an electric railway extension in North Knoxville. Address C. C. Howell.

AKRON, O.—Contracts are said to have been let for the grading of the new Cleveland-Akron Electric Ry.——Frank Reifsnider has asked the city commissioners to compel the Akron St. Ry. & Illuminating Co. to extend its Wooster Ave. line to Sherbondy Hill.

CINCINNATI, O.—The Cincinnati & Hamilton Electric St. Ry. Co. has asked for a franchise for a single track railway over the Cincinnati and Hamilton turnpike.

CLEVELAND, O.—The Cleveland, Berea & Elyria R. R. Co. has asked for a franchise to extend its Lorain St. line to Linndale.

EAST LIVERPOOL, O.—The East Liverpool, Fredericks-town & Lisbon Electric Ry. Co. is making arrangements for a terminal at this place. The property has been secured and work will be begun at once. M. & J. Head may be addressed.

MARYSVILLE, O.—J. B. Wilson, Columbus, and Richard Lyons, Cadiz, are organizing a company to build an electric street railway connecting Richwood, Magnetic Springs and this city.

MEDINA, O.—Frank C. Goodman, 600 Pearl St., Cleveland, has asked for a franchise for an electric railway to be known as the Cleveland, Medina & Southern Electric Ry.

MILLVILLE, O.—An electric railway is proposed from this village to Hamilton, Venice and Cincinnati. Wm. Minton and H. D. Hancock, Hamilton, are interested in the project.

TROY, O.—The Troy & Dayton Electric R. R. Co. has been incorporated by Al. Feight, G. C. Wise, W. H. Tomlinson, F. M. Turner and W. C. Ely, all of Dayton.

WARREN, O.—The county commissioners have extended the franchise of the Trumbull Electric R. R. Co., between Warren and Niles, from 20 to 50 years, in consideration of $2,500 worth of road work for the county.

MOUNT CLEMENS, MICH.—Work has been begun on the Detroit, Lake Shore & Mount Clemens Ry. J. A. Smith, Algonac, has been awarded the contract for grading ten miles of the road. C. H. Lawrence is the general contractor.

CHICAGO, ILL.—The Metropolitan Traction Co. has negotiated a loan of $2,000,000 with the Equitable Trust Co. as trustee, and the State Trust Co. as co-trustee, with which it will build and equip various electric railways. Two thousand $1,000 5% bonds, due in 30 years, will be issued. Pres., Perry Hull; Secy., E. J. Judd.

ELGIN, ILL.—The Elgin City, Carpentersville & Aurora Ry. Co. has been incorporated with capital stock of $500,000, to operate 30 miles of road.

WAUKEGAN, ILL.—Work has been begun on the extension of the Bluff City Electric St. Ry., from this city to Evanston.

WHITEFISH BAY, WIS.—The Milwaukee Electric Ry. & Light Co. is, according to report, about to receive a franchise for an electric railway into this village. Vice-Pres., Henry C. Payne.

OSHKOSH, WIS.—It is reported that the Oshkosh St.-Car Co. is about to equip its line with electricity. Chas. Schriber, Jos. Porter and J. H. Jenkins are members of the company.

LEAVENWORTH, KAN.—The Leavenworth & Lansing Electric Ry. Co. has been incorporated with $150,000 capital stock to build an electric road between these cities. The directors are C. B. Leavel, W. E. Winner, Kansas City, Mo.; J. W. Hatzeserman, of this city, and G. F. Nealy and E. B. Merritt, Lansing.

WICHITA, KAN.—The Wichita Ry., Light & Power Co. has been granted a 20-year franchise by the council.

OMAHA, NEB.—The Omaha & Council Bluffs St. Ry. & Bridge Co. has been granted an extension of its franchise for 50 years from Aug. 2.

MISSOULA, MONT.—D. B. May is interested in a proposed electric railway through the National Park to Cook City.

KANSAS CITY, MO.—The East Fifth St. Electric Ry. Co. has been incorporated by Heim Bros., to build an electric street railway to the East bottoms. Capital stock, $2,000. The old roadbed and franchise of the Union Ry. Co. will be used.——The Kansas City & Eastern Ry. Co. has been incorporated with capital of $50,000, to build an electric railway from the end of the Westport cable line of the Metropolitan system to Leeds, with spurs to Forest Hill cemetery and the Waldo race track. Henry Pfeiffer, Westport; Chas. B. Adams, Geo. Hoffman, John Hoffman and B. F. Robinson, of this city, are the incorporators.

ST. JOSEPH, MO.—The St. Joseph Ry., Light, Heat & Power Co. will extend its line to the St. Joseph Stock Yards as soon as possible. Gen. Mgr., W. T. Van Brunt.——An electric railway is projected by Ferd. Heim, of Kansas City, from Lake Contrary to Krug Park, by way of St. George.

CUERO, TEX.—R. A. Pleasants and others have been granted a franchise by the council for a street car line to be built within a year.

LEXINGTON, OKLA.—The Lexington & Northwestern Ry. Co. has been incorporated, with capital stock of $100,000. F. W. Hawes and A. D. Goodenough are among the incorporators.

CRIPPLE CREEK, COLO.—Orman & Cook, Pueblo, have the contract for the first five miles of the Canon City & Cripple Creek Gold Belt Ry. A 4,000-HP. electric plant will be built at Canon City to furnish power to the line. J. B. Crosby, Colorado Springs, is the promoter.

PUEBLO, COLO.—Surveys have been made by P. O. Gavnor for an electric railway from this city to Riverview cemetery, and the plans are in the hands of the General Electric Co., which will construct the road.

BERKELEY, CAL.—A street railway is projected in this city by a syndicate, of which F. C. Havens is manager.

PASADENA, CAL.—A. B. Hogan has been awarded the contract for the construction of the East Side electric loop of the Pasadena & Pacific Ry., on South Los Robles, California and Lake Aves.

LOS ANGELES, CAL.—The Southern California Power Co. has entered into a contract to furnish electric power for 20 years to the Los Angeles St. Ry. Co. for the operation of its cars. The power plant is in the Santa Ana Canon, about 80 miles from Redlands, making this the longest transmission line in the country. H. H. Sinclair, Redlands, may be addressed.

SANTA ANA, CAL.—The Santa Ana & Newport Ry. Co. has been incorporated, with $500,000 capital stock. Jos. McFadden and E. M. Smiley are among the directors.

ST. THOMAS, ONT.—Jas. A. Bell, Cy. Engr., has been instructed by the council to prepare an estimate for an electric street railway. Jas. H. Still, a manufacturer of the city, has offered to construct such a road if the council will guarantee $50,000 worth of bonds.

TORONTO, ONT.—The York township council has given the Toronto St. Ry. Co. permission to construct an extension of its line to the cemeteries by way of Avenue road or Clinton Ave. to Yonge St., in Deer Park.——Work has been begun on the construction of the Queen St. extension to Monroe Park.

KINGSTON, JAMAICA, W. I.—A syndicate, in which H. W. Whitney, Boston, Mass., and F. S. Pearson, New York city, are interested, with a number of Canadian capitalists, has secured a contract to build an electric railway in this city.

PORT ANTONIO, JAMAICA, W. I.—The Columbia Co. has been incorporated in New Jersey, with capital stock of $80,000, $14,000 paid up, to build and operate horse, steam, electric and other power street railways and furnish electric light and power, build water, gas and oil works and other enterprises in this place and in Mexico, Central America, Venezuela, Brazil and elsewhere. Elisha B. Hopkins, Wellfleet, Mass.; Warren F. Wiley and John J. Mulvaney, Jersey City, N. J., are the incorporators.

ELECTRIC LIGHT AND POWER.

ROCKVILLE CENTRE (L. I.), N. Y.—This town is reported to be seriously considering the lighting question, and will without doubt install an electric lighting plant.

BROOKLYN, N. Y.—Bids are asked until Aug. 30 for equipping the bridge at Washington Ave. and the Wallabout Canal with electric motive power. Theodore B. Willis, Comr. Cy. Wks.

FREEPORT (L. I.), N. Y.—It is more than probable that this place will build a municipal lighting plant. The necessary machinery is estimated to cost about $15,000.

PHILADELPHIA, PA.—Extensive improvements, including electric elevators and a lighting plant, will be made to the Snellenberg building by Doyle & Doak, builders, 133 S. 15th St.

FALLSTON, PA.—It is reported that a power company of New Brighton recently purchased the plant of the Darrah Foundry & Machine Co. of this place and will at once transform it into an electric power plant.

MANNINGTON, W. VA.—It is reported that the lighting company of which A. L. Prichard is manager has contemplated plans and purchased a site and will soon begin the erection of its plant.

CAMDEN, S. C.—The plan for electric lighting has been accepted and it is expected that contracts will soon be let.

MONTGOMERY, ALA.—Bids are asked until Sept. 23 for lighting the streets and city buildings. R. H. Sommerville, Treas.

MONTGOMERY, ALA.—Bids are asked until Sept. 22 for furnishing an electric light plant for Fort Pickens, Fla., as stated in our advertising columns. Maj. F. A. Mahan, U. S. Engrs.

MOBILE, ALA.—Reports state that the electric lighting company intends putting in 500-HP. additional boilers, 400-HP. of new engines and several new dynamos.

HOLY SPRINGS, MISS.—At a recent election a bond issue of $43,000 was carried, and plans are being prepared for an electric light plant and water-works. Sam Finley, Mayor, can be addressed.

LOUISVILLE, KY.—Bids are asked until Sept. 14 for the public electric lighting of this city, for 5 to 20 years, as described in our advertising columns. John Hartman, Jr., Secy. pro tem. Bd. Pub. Wks.

MONROEVILLE, O.—J. F. Henninger, Corp. Clk., writes that the election held Aug. 1 resulted favorably, and that at the next council meeting, Sept. 6, steps will be taken to secure an electric light plant.

IRONTON, O.—Bids are asked until Sept. 16 for installing a lighting plant of 300 light capacity (arcs of 1,500 or 2,000 c. p.). Geo. H. Davis, City Clk.

PEORIA, ILL.—It is stated that efforts are being made to secure a lighting plant at this place.

BEDFORD, IA.—It is reported that an electric light plant will be installed at this place by C. Wilbur Wiley, of Beloit, Wis.

PARK RAPIDS, MINN.—It is stated that operations have begun on an electric light plant. The project is backed by Geo. Mandigs.

ABILENE, KAN.—The city council is reported to be considering the question of electric lighting.

FORT SMITH, ARK.—This city expects to adopt electric lighting and will soon ask for bids for street lighting. F. B. Garrett, Mayor.

TERRELL, TEX.—The electric light plant at this place, owned by C. Vanordstrand, was burned recently; loss, from $15,000 to $20,000; insurance, $12,500. The plant will without doubt be rebuilt.

BALLARD, WASH.—The purchase of an electric lighting plant has been authorized by the council.

NEW COMPANIES.—Twin City Electric Co., Centralia, Wis., $15,000; to build and operate an electric plant.

Montana Power Co., Butte, Mont.; $600,000; to supply electric power for mechanical purposes, etc.; Henry H. Byllesby, St. Paul, Minn.; H. W. Turner and Max Hebgen, Butte, Mont.

Electric Power & Mining Co., Salem, Ore.; $25,000; H. W. Goode, W. A. Burkholder.

The Sebago Power Co., Portland, Me.; to acquire and develop water powers, etc.; Chas. D. Brown, Boston, Mass.; Frederick J. Collier, Hudson, N. Y.

The Cold Storage, Ice, Power & Water Co., Ennis, Tex.; to develop water power and furnish electricity; $75,000.

The Pensacola Electric & Terminal Co., Pensacola, Fla.; $200,000; to build and operate an electric plant; W. H. Northrup, Pres.

The Central Light & Power Co., San Francisco, Cal., $1,000,000; to furnish light and power throughout the city; F. Paulson, C. L. Ackerman, A. E. B. Ridley, Joseph Naphthaly.

BRIDGES.

LUDLOW, MASS.—Bids are asked by the Ludlow Mfg. Co. until Sept. 2 for constructing the substructure of the Putts bridge over the Chicopee River, between this town and Springfield. J. E. Stevens.

DELHI, N. Y.—Local papers state that the Owego Bridge Co., Owego, N. Y., has been awarded a contract for constructing a 160-ft. iron bridge at Bridge St., with an 18-ft. roadway and 5-ft. sidewalk and warranted to sustain a weight of 20 tons; the abutments to be rebuilt and raised, and an arched or piped approach on the village side in place of the present shore span; the raising and replacing of the iron beams in the small bridge below, with steel beams; and the construction of a bridge across the Little Delaware at Forrest's from the material of the old bridge, which will leave quite a large amount of plank and timber usable for necessary repairs to Hoag's and other bridges.

NEW YORK, N. Y.—Bids are asked until Sept. 2 for extending the bridge in Pelham Ave.; also for constructing a steel beam structure and abutments at the crossing of Brook Ave. and the Port Morris Branch R. R. Louis F. Haffen, Comr. St. Improvements, Third Ave. and 177th St.

STAPLETON (S. I.), N. Y.—Bids are asked by the county supervisors until Sept. 8 for constructing two highway bridges. Franklin C. Vitt, Clk.

WILLIAMSPORT, PA.—Local papers state that the Groton Bridge & Mfg. Co., Groton, N. Y., has been awarded at $499 the contract for the steel work for the proposed bridge at Dubolstown.

ENTERPRISE, W. VA.—Reports state that the county court has ordered a bridge built at this place and has awarded the contract to the King Bridge Co., Cleveland, O.

HARTFORD, KY.—It is reported that the Wrought Iron Bridge Co., Canton, O., has been awarded, at $6,675, the contract for constructing a 175-ft. suspension bridge across Rough River at this place.

CLEVELAND, O.—Bids are asked until Sept. 10 for the purchase of $90,000 in 4% bridge repair bonds. H. L. Rossiter, Cy. Audr.

COLUMBUS, O.—A bridge is to be constructed over Big Walnut, at Central College, according to reports.

YOUNGSTOWN, O.—Bids are asked by the county commissioners, until Sept. 1, for the purchase of $190,000 in 4½% bridge bonds, the proceeds to be used in constructing the proposed bridge over the Mahoning River at Market St. F. Brenner, County Audr.——The Erie R. R. Co. has decided to erect a bridge at Crab Creek with perpendicular stone abutments, instead of putting in a stone arch, as was at first intended. The proposed width of the waterway between the abutments, 24 ft., will remain the same as before.

INDIANAPOLIS, IND.—Local papers state that the council has appropriated $12,000 to be used for bridge building. B. J. T. Jeup, Cy. Engr.

PLAINFIELD, MICH.—It is reported that a company is being formed here to construct a $10,000 toll bridge across Grand River. De Witt Richardson and J. K. Davie are said to be interested.

CHICAGO, ILL.—A new lift bridge is to be constructed across the river at State St. L. E. McGann, Comr. Pub. Wks.

SIOUX CITY, IA.—It is reported that the Sioux City Traction Co. is to construct a new bridge 60 ft. wide over Perry Creek at West Seventh St.

FORK, MINN.—Bids are asked until August 30 for constructing a wooden bridge across Snake River. J. P. Lein, Town Clk.

DICKINSON, N. DAK.—The following bids have been received for constructing three iron, wood or combination bridges; G. J. De France, County Audr.:

Wrought Iron Bridge Co., Canton, O.	$6,904
Chicago Bridge & Iron Co., Chicago, Ill.	7,347
S. M. Hewett & Co., Minneapolis, Minn.	7,914
William S. Hewett & Co., Minneapolis, Minn.	8,327
Wisconsin Bridge & Iron Co., Milwaukee, Wis.	7,304
Milwaukee Bridge & Iron Works, Milwaukee, Wis.	7,799
E. Peppard, Missoula, Mont.	7,345
Jas. Kennedy, Fargo, N. Dak.	8,000
Gillette-Herzog Mfg. Co., Minneapolis (accepted).	6,656

FARGO, N. DAK.—Reports state that the bids opened Aug. 14 for constructing six county bridges have been rejected as being too high. New bids will probably be asked.

WAYNESVILLE, MO.—The following bids were received Aug. 5 by W. J. Barrows, County Surv., for rebuilding the McCain bridge; Canton Bridge Co., Canton, O., $2,959; Blodgett & Farnsworth, Kansas City, Mo., $2,959.50; Pueblo Bridge Co. Pueblo, Colo., $3,059; Kansas City Bridge Co., Kansas City, Mo., $3,070; R. Z. Drake, Springfield, Mo., $3,085; St. Louis Bridge Co., St. Louis, Mo., $3,140.

ORANGE, TEX.—A new bridge is to be constructed across Adams Bayou at Jackson St., according to reports.

RICHMOND, TEX.—Jas. F. Weed, Engr., Houston, Tex., writes us that the Gillette-Herzog Mfg. Co., Minneapolis, Minn., has been awarded, at $2,250, the contract for constructing a 100-ft. steel highway bridge on concrete piers, with 135-ft. of approaches.

FRESNO, CAL.—Bids are asked by the county supervisors until Sept. 14 for constructing a highway bridge over Kings River in section No. 16, Fresno county. T. G. Hart, Clk.

MADERA, CAL.—Bids are asked by the county supervisors until Sept. 7 for constructing a bridge across Fresno River. C. J. Eubanks, Clk.

MODESTO, CAL.—The Pacific Bridge Co., San Francisco, Cal., has been awarded, at $1,550, the contract for repairing the La Grange county bridge.

NAPA, CAL.—Bids are asked until Sept. 15 for constructing a masonry arch bridge across Richie Creek. N. W. Collins, Clk.

PETALUMA, CAL.—It is reported that the old draw bridge at this place is to be torn down and a new $20,000 steel structure erected in its stead.

OAKLAND, CAL.—The county supervisors are said to be considering the construction of a bridge over the harbor at Webster St.

REDDING, CAL.—Bids are asked until Sept. 10 for constructing a 40-ft. stringer bridge with the necessary approaches, etc. A. J. Dryan, Clk. Bd. Supervisors.

PROVO CITY, UTAH.—Bids are asked until Sept. 6 for constructing a 63-ft. bridge, with stone abutments, across Provo River, near the mouth of Provo Canyon. Geo. Havercamp, County Clk.

HAILEY, IDA.—Bids are asked until Sept. 13 for constructing the extension of the bridge between Cold Springs and Ketchum, also for a bridge at Glenn bridge crossing. W. C. Martin, Clk.

MOSCOW, IDA.—Bids are asked until Sept. 14 for constructing a bridge across the Palousse River, near Princeton.

BUILDINGS.

BOSTON, MASS.—Bids are asked until Sept. 17 for all the labor and materials necessary to erect a 2-story money vault in the second story of the post-office and sub-treasury building in this city, including the necessary modification of the present construction of the building. C. E. Kemper, Acting Superv. Arch., Washington, D. C.——Reports state that plans have been prepared for an 11-story iron and steel addition to Hotel Reynolds, at Boylston St. and Bumstead Court, to cost about $250,000. Owner, Albert Geiger; Arch., Arthur H. Vinal, 19 Milk St.

BOSTON, MASS.—Reports state that Woodbury & Leighton, 166 Devonshire St., have been awarded the general contract for erecting the 10-story apartment hotel for the Westminster Chambers Trust Co., of Chicago, at Trinity Place and Copley Square, at $635,000. Archs., Henry E. Cregier and John Addison, 1108 Boyce Bldg.

WEST MEDFORD, MASS.—S. Gleason, Sub-committee Brooks School, writes us that $65,000 has been appropriated for a 12-room brick school building. Plans and specifications have been prepared, but the contract is not yet awarded; the old building has already been removed.

BROOKLYN, N. Y.—Reports state that the Atlantic Yacht Club, 1st Ave. and 56th St., will soon erect a new club house at Sea Gate, to cost about $60,000.

BROOKLYN, N. Y.—Bids are asked until Sept. 7 for iron work, fire-proof floors, etc., for buildings at the Brooklyn navy yard. E. O. Matthews, Ch. Bureau of Docks and Yards, Navy Dept., Washington, D. C.——The following bids were received Aug. 17 by Theo. B. Willis, Comr. Cy. Wks., for erecting an administration building for the Kings County Hospital, Clarkson Ave., near New York Ave.: John Kennedy & Son, $19,369; John D. Anderson's Sons, $17,987; Thomas B. Rutan, $17,432; John J. Maloney, $16,997; Theodore McKane, $16,611; Andrew P. Blixt, $15,950; Thomas G. Carlin, $15,813; Leonard Bros., $15,632; M. Gibbons & Son, $14,747.

BUFFALO, N. Y.—Bids will soon be asked for erecting outside iron stairways on twenty-eight school buildings; plans and specifications are now being prepared for the same by the board of public works. M. M. Drake, Comr. Pub. Wks.

FORT HAMILTON, N. Y. H.—Bids are asked until Sept. 23 for constructing buildings, including heating, gas piping and plumbing, at this place, as stated in our advertising columns. Capt. J. M. Carson, Jr., A. Q. M.

NEW YORK, N. Y.—Bids are asked until Sept. 9 for all the labor and material required for the new library in the court room of the post office building in this city, as stated in our advertising columns. C. E. Kemper, Actg. Supv. Arch., Washington, D. C.——Plans have been filed by J. H. Havens, 172 West 105th St., for the 5-story brick flat and store buildings, on 109th St., near Amsterdam Ave., to cost $66,000. Archs., Neville & Bagge, 217 West 125th St.——The following bids were received by the Park Department, Aug 23, for furnishing all the labor and materials necessary to erect the new southeast corner wing and enlargement of the American Museum of Natural History:

Thos. Cockerill & Son, 550 West 41st St.	$364,500
I. A. Hopfer, 219 West 125th St.	374,225
Thos. Dwyer, Temple Court	387,000
John E. Johnson, 114 East 124th St.	407,000
J. Baker Smith, Boulevard, near 119th St.	409,000
John J. Hopfer, 215 West 125th St.	411,586
Hortons & Hemmingway, Providence, R. I.	414,200
Quincy & Crawford, 8 East 116th St.	458,171

NEW YORK, N. Y.—The following bids were received Aug. 25 by the fire department, 157 East 67th St., for erecting a building on 140th St., west of Amsterdam Ave.:

H. Probst, 1180 Broadway	$21,577
P. J. Ryan, 307 West 44th St.	22,367
Jno. F. Johnson, 114 East 124th St.	22,445
Scheidecker & Gonder, 556 West 170th St.	22,449
Geo. Telfer, 150 Nassau St.	22,490
McEntee & O'Brien, foot of East 124th St.	22,650
E. D. Connolly's Sons	22,650
Christopher Nally Co., 102 West 81st St.	22,675
Hartman & Horgan, 253 East 68th St.	22,887
Thos. B. Leahy, 350 West 31st St. (informal)	20,773

The following bids were received, Aug. 25, by Chas. H. T. Collis, Comr. Pub. Wks., for furnishing all labor and material necessary to build a public comfort station under the sidewalk and City Hall Park, on the north side of Mall St., between Broadway and Park Row, with the necessary sewer, manholes, etc., for connection with the sewer in Broadway, opposite to Park Place:

Thomas Dwyer, Temple Court	$23,236
Ryan & McFerran	24,109
J. A. Rennie, 320 Broadway	24,737
Kelly & Kelley, St. Paul Bldg.	24,900
Geo. Telfer, 150 Nassau St.	24,925
A. B. Marshall, 81 East 125th St.	26,375
Murphy Bros, 407 East 101st St.	28,000

NEW YORK, N. Y.—Plans are being prepared for Ginsberg & Mathot, 132 Nassau St., for sixty-five 3-story and basement, brownstone and marble front brick dwellings, to be erected on Daly and Vyse Aves., between 180th and 181st Sts.; estimated cost, $650,000. Arch., S. D. Cohen, 203 Broadway.——Plans have been filed by Barnard College for a new dormitory building, near 118th St. and the Boulevard, to cost about $150,000. S. B. Brownell is the donor; by Michael McCormack, 50 West 127th St., for three 5-story brick flat buildings at 121st St. and Morningside Ave., to cost $120,000. Archs., Neville & Bagge, 217 West 125th St.; by P. K. Moore, 136 West 111th St., for two 5-story brick flat buildings on 7th Ave., north of 111th St., to cost $84,000. Arch., C. A. Millner, 81 East 125th St.; by Washington Heights Church, 94 Chambers St., for a 2-story brick church building at 145th St. and Convent Ave., to cost $80,000. Archs., Lamb & Rich, 35 Nassau St.; by S. & H. Rawitser, 44 East 75th St., for a 6-story brick business building at Canal St. and West Broadway, to cost about $100,000. Archs., Brunner & Tryon, 36 Union Square; by the city for a 3-story brick school building on Fordham Ave., near Fordham St., City Island; estimated cost, $60,000. Arch., C. B. J. Snyder, 585 Broadway; by Dr. R. D. Jones, 36 West 59th St., for an 8-story brick hotel on 59th St., west of Park Ave., to cost $60,000. Arch., F. W. Fisher, 36 West 59th St.; by Anna Siegel, 169th St. and Fulton Ave., for a 4-story brick dwelling and three 4-story brick tenement buildings on Washington Ave., near 170th St., to cost $60,000. Arch., M. J. Garvin, 3311 3d Ave.; by the Metropolitan Improvement Co. and E. L. Schiller, for seven 4-story brick dwellings at 81st St. and West End Ave., to cost $105,000. Arch., Clarence True, 459 Boulevard.——The following bids were received Aug. 17, by C. E. Kemper, Acting Supervising Arch., Washington, D. C., for the rolling iron shutters above the second story of the U. S. Appraiser's warehouse in this city: Clark, Burnett & Co., New York, $26,772, time 6 mos.; James G. Wilson, New York, $24,690, time 4 mos.; Kinnear-Gager Co., Columbus, Ohio, $15,888, time, 4 mos.——The following bids were received by the fire department, 157 East 67th St., Aug. 18, for constructing a building on 170th St., near Audubon Ave.:

Hartman & Horgan, 253 East 68th St. (accepted)	$22,000
Herman Probst, 1180 Broadway	22,568
P. J. Ryan, 307 West 44th St.	23,360
John J. Hoffer, 215 West 125th St.	25,000
John F. Johnson, 114 West 124th St.	24,800
Scheidecker & Gonder, 556 West 170th St.	25,600

POUGHKEEPSIE, N. Y.—Bids were asked until Aug. 25 for installing new steam mains in conduit, together with pressure regulating valves, a pump and other work required to replace the present mains for supplying steam to the several buildings of the female department of the Hudson River State Hospital. Frank B. Lown, Pres. Bd. Mgrs.; I. G. Perry, State Arch., Albany, N. Y.

RICHMOND HILL (L. I.), N. Y.—An election will be held here Sept. 6 to vote on the advisability of appropriating $75,000 for a new high school.

ROME, N. Y.—The board of education has requested the council to call a special election to vote on the question of erecting a new academy, to cost $65,000.

SONYEA, N. Y.—Joseph Fleckenstein, Rochester, N. Y., was the lowest bidder for erecting four dormitory buildings and an administration building for the Craig Colony for Epileptics, at $85,753. Arch., George J. Metzger, 19 West Huron St., Buffalo, N. Y.

TROY, N. Y.—Reports state that the A. E. Richmond estate will soon erect a 5-story brick hotel on the site of the Richmond house on State St.; the building will contain 150 rooms and twelve stores.

TROY, N. Y.—Chas. P. Boland has been awarded the contract for erecting the 3-story double apartment building, on First St., for J. Wool Griswold. Arch., W. A. Wheeler, Albany, N. Y.

WILLETS POINT (L. I.), N. Y.—Bids are asked until Sept. 23 for constructing a 3-company mess hall, as stated in our advertising columns. Lieut. E. W. Van C. Lucas, Q. M.

MONTCLAIR, N. J.—Reports state that the contracts will soon be let for erecting a new 3-story Y. M. C. A. building on Bloomfield Ave., near Park St.; estimated cost, $50,000. Archs., Van Vleck & Goldsmith, of New York.

PATERSON, N. J.—The Secretary of the Treasury, Washington, has accepted the bid of Chas. A. Moses, Chicago, for erecting the new post-office building in this city, at $100,887; the next lowest bid was that of W. C. Peake, of Washington, at $132,000. Reports state that Mr. Moses desires to withdraw his bid.

PITTSBURG, PA.—The estate of J. N. McCullough has been granted a permit to erect a 6-story brick warehouse at 7th Ave. and Cherry Alley, to cost $66,700.

BALTIMORE, MD.—Bids are asked until Sept. 4 for erecting the superstructure of the Mount Royal pumping station, at North Ave. and McMechen St.; deposit required, $2,500. T. J. Hayward, Chn. Engineer's Com.; Henry Braun, Arch., Builders' Exchange.

ATLANTA, GA.—Bids are being asked by Andrew J. Bryan & Co., Archs., Equitable Bldg., for the erection of a 130-room summer hotel within 60 days from date.

JACKSONVILLE, FLA.—A new bank building, to cost about $50,000, will soon be erected by the National Bank of Jacksonville at Forsyth and Laura Sts.

TALLAHASSEE, FLA.—Bids are asked by the Governor until Sept. 8 for erecting the new state reformatory buildings.

NEW ORLEANS, LA.—The Louisville & Nashville R. R. Co. will erect a new station, 125 x 395 ft., to cost about $40,000. H. Bolla, Supt. Bldgs., Louisville, Ky.

PORT CLINTON, O.—Bids are asked until Sept. 7 for the purchase of $100,000 of bonds issued for the purpose of enlarging the county court house. E. A. Powers, County Audr.

CHICAGO, ILL.—Plans have been prepared for the Wells-Fargo Express Co. for a brick and stone stable and warehouse at Clark and 17th Sts., to cost $75,000. Arch., Minard L. Beers, 218 La Salle St.——J. A. Williams has been granted a permit to erect a 10-story brick building at 196 to 202 Monroe St., to cost about $150,000.

EVANSTON, ILL.—A new 3-story academy building will soon be erected at this place for the Northwestern University, to cost about $80,000. Principal, Dr. Herbert F. Fisk.

SPRINGFIELD, ILL.—The contract for the new passenger station of the Illinois Central R. R. in this city has been awarded to Scoullar & Bierwirth, Chicago, Ill.; estimated cost, $75,000. Richard Sloan, Ch. Engr., Chicago.

MENOMONIE, WIS.—The following bids have been received for plumbing the high school building; Arch., John Charles:

Aug. Schoenoff, Menomonie (accepted)	$3,210
Jas. A. Trane, La Crosse, Wis.	3,300
David A. Ahern & Son, Fond du Lac, Wis.	3,400
W. W. Sykes & Co., Minneapolis, Minn.	3,444
J. P. Fox, Eau Claire, Wis.	3,550

OELWEIN, IA.—A 3-story brick, stone and terra cotta hotel building, to be known as the Hotel Maple Leaf, will soon be erected by J. Maley at this place; estimated cost, $50,000. Arch., O. W. Marble, Chicago, Ill.

FARGO, N. DAK.—Plans have been prepared for a new station at this place for the Northern Pacific Ry., to cost $35,000. It will be built this fall and will be a 2-story brick and stone building. E. H. McHenry, Ch. Engr., St. Paul, Minn.

PAOLA, KAN.—Bids are asked until Sept. 1 for erecting and completing (except steam heating and plumbing), the Miami county court house at this place; deposit, $1,500. Jas. E. Caton, County Clk.; Geo. P. Washburn, Arch., 413 South Main St., Ottawa, Kan.

TOPEKA, KAN.—Bids are asked until Sept. 6 for repairing the stone work of the dome, etc., of the capitol building. W. E. Bush, Secy. of State; T. H. Lescher, State Arch.

WINFIELD, KAN.—Bids are asked until Sept. 15 for erecting a building for the accommodation of imbecile children at this place. Address W. L. Brown, Pres. Bd. Trustees of Charitable Institutions; W. W. Rose, Supt., Kansas City, Mo.

COLUMBIA, MO.—Bids are asked until Sept. 9 for the electric wiring of the new clubhouse of the Missouri State University. J. G. Robb, Secy. Bd. Curators; H. H. Hohenschild, Arch., Rolla, Mo.; A. L. McRae, Consulting Electrical Engr., 306 Oriel Bldg., St. Louis.

JEFFERSON BARRACKS, MO.—Bids are asked until Sept. 24 for constructing buildings at this place, as stated in our advertising columns. Capt. John T. Knight, Asst. Q. M.

HANFORD, CAL.—Bids are asked until Sept. 13 for erecting a hospital building at this place. Clerk, E. Cunningham; Archs., McDougall Bros., Bakersfield, Cal.

PASADENA, CAL.—The Western Expanded Metal Fireproofing Co. has been awarded the contract for fireproofing the annex to Hotel Green at $41,755.

RIVERSIDE, CAL.—A new hotel will soon be erected here at a cost of $100,000. Mgr., Frank A. Miller.

TORONTO, ONT.—Bids are asked until Sept. 20 for performing the following work in connection with the municipal buildings, now in course of erection on Queen St. West: Erecting hydraulic or electric elevators; electric and gas fixtures; pneumatic clocks; steel and wrought iron; terra cotta, brick arching and concreting. Mayor John Shaw, Chn. Bd. Control; Arch., E. J. Lennox, King and Yonge Sts. The advertisement is found in our advertising columns.

WATER-WORKS.

KINGFIELD, ME.—The Kingfield Water Co. has been organized with E. E. Jenkins, Pres.; O. W. Simmons, Treas.; John Winter, H. S. Wing, C. W. French, A. C. Winter, together with the president and secretary constitute the board of directors. The company proposes to furnish water for fire protection, domestic use, and for motive power. The town is said to have contracted for 18 hydrants.

HAMPTON, N. H.—We are informed that surveys are to be made for works for this town and Hampton Beach, the supply to be from the Marston spring.

BARRE, VT.—The committee appointed to investigate the advisability of the city purchasing the plant of the Barre Water Co. has made a report recommending the purchase, providing it can be made at a reasonable figure. N. W. Phelps and E. L. Smith may be addressed.

BRANFORD, CONN.—Bids are asked until Sept. 1 for building masonry dams and reservoir and for laying about 11 miles of 4 to 14 in. pipe, as described in our advertising columns. Nichols & Potter, Engrs., 42 Church St., New Haven; Nelson J. Welton, Consult. Engr., Waterbury, Conn.

MERIDEN, CONN.—Bids are asked until Sept. 4 for improving wasteway at Kenmere, as described in our advertising columns. E. B. Moss, Cy. Engr.; G. W. Miller, Supt. Water-Wks.

NEW BRITAIN, CONN.—The water board has decided to construct two 20-in. pipe lines at an estimated cost of $125,000, according to reports.

WILLIMANTIC, CONN.—Bids are asked until Sept. 6 for repairing the power pumps and foundations for same, as stated in our advertising columns. James Haggerty, Chn. Com.; H. D. Card, Cy. Engr.

ALBANY, N. Y.—Local papers state that Geo. I. Bailey, Supt. Water-Works, has been directed to secure plans and estimates for an addition to the Bleecker reservoir, to be built for the reception of the filtered water and to be used as a temporary reservoir while the old one is being cleaned.

BINGHAMTON, N. Y.—Bids are asked until Sept. 14 for laying 2,400 ft. of 36-in. ball-joint, cast-iron pipe and building crib and intake, etc., as stated in our advertising columns. A venturi meter has just been purchased at a cost of about $1,300. John Anderson, Secy. Comrs.

BUFFALO, N. Y.—The bids opened last week for a 30,000,000-gallon pumping engine, are given in another column under Contract Prices. The bids were as follows: On the conduits and wells for the new engine: Fred. J. Martin, $4,700; John Harren, $7,262; Ritzman & Miller, $5,462; W. A. Rappich, $8,600; George W. Moore, $5,997; Henry Burgard, $5,995. For an overhead crane the Buffalo Structural Steel Works was the only bidder, at $2,670. On two boilers, with all labor and material for same, there were three bids, as follows: Lake Erie Boiler Works, $8,470; Babcock & Wilcox Co., New York, $8,424; with McClave patent shaking grates and Rowney patent stokers, $10,131; with Hawley down-draft furnace, $10,562; Ritter Bros., Buffalo—Boilers equipped with Murphy mechanical stokers, $9,928; Brighton stokers, $10,607; Acme stokers, $10,772; Rowney stoker, $10,799; Hawley down-draft furnace, $11,228.

COLLEGE POINT (L. I.), N. Y.—The following bids were received Aug. 16 for constructing stand-pipe:

Bartlett & Hayward	$19,200
R. D. Wood & Co., Philadelphia, Pa.	14,740
Marietta Boiler Works, Marietta, O.	15,626
Struthus, Wells & Co., Warren, Pa.	14,516
Chicago Bridge & Iron Co., Chicago, Ill	15,994
Ritter & Conley, Pittsburg, Pa.	17,714
Logan Iron Works, Greenpoint, L. I. (accepted)	13,960

OXFORD, N. Y.—E. F. Musson, Engr., Norwich, N. Y., writes us that the contract for constructing works, as advertised in Engineering News, has been awarded to M. B. Birdseye & Son, Fayetteville, N. Y., at $20,634. The pipe is to be furnished by Chas. Miller & Son, Utica, and the valves and hydrants by the Ludlow Valve Mfg. Co., Troy.

TOTTENVILLE (S. I.), N. Y.—The board of trustees has called another election to reauthorize the issue of $30,000 in bonds for the construction of a municipal water supply. The trustees state that the issue of bonds recently made is illegal.

WAYLAND, N. Y.—Geo. Nold, Town Clk., writes us that an election will be held Aug. 31 to vote on the question of issuing $50,000 in bonds for a water supply.

ALLENTOWN, PA.—City Engineer Martz is said to be preparing plans for extensive improvements to the water supply, including a sheet-iron stand-pipe to be 150 ft. high and 20 ft. in diameter; also a 24-in. main from the pumping station to the stand-pipe.

GLENFIELD, PA.—The Glenfield Water Co. was incorporated Aug. 23 with a capital stock of $2,500 to supply water to this town. Treas., Daniel Woldschmidt.

LANCASTER, PA.—The following bids were received Aug. 17 for constructing an addition to the boiler house at the pumping station: H. N. Breneman & Son, $844 (accepted); D. H. Rapp, $947; J. M. Bachman, $875; Chas. T. Stumpf, $986; S. B. Jeffries, $1,150; Benj. D. Zook, $1,245; P. N. Wohlsen, $859.

LAURELTON, PA.—The Laurelton Water Co. was incorporated Aug. 23 with a capital stock of $2,500 to supply water to this town. Treas., Geo. C. Mohn, M. D.

MILLERSTOWN, PA.—Bids are asked until Sept. 11 for constructing a 200,000-gallon reservoir, lined with clay, cement mortar and stone paving; 8-in., 6-in., 4-in. and 3-in. cast-iron pipes, specials and valves; double nozzle hydrants and laying pipes. Wm. Kipp, Secy. Council; Howard Murphy, Engr., 326 Walnut St., Philadelphia.

WEST CONSHOHOCKEN, PA.—Wm. J. Pennington, Clk. Council, writes us that the fire and water committee is investigating the matter of constructing works.

BALTIMORE, MD.—Bids are asked until Sept. 4 for constructing the superstructure of the Mount Royal pumping station. T. J. Hayward, Chn. Engrs. Com.

WASHINGTON, D. C.—The district commissioners have ordered about 1,100 ft. of 6-in. main to be laid in Sherman Ave. and First St.

MANCHESTER, VA.—Jas. A. Lipscomb is preparing plans and estimates for extending the intake pipe farther into the river, according to reports.

WHEELING, W. VA.—This city is said to be considering the construction of a new reservoir to have a capacity of from 100,000,000 to 150,000,000 gallons. Henry Jones, Pres. Water Bd.

AUGUSTA, GA.—Bids are asked until Sept. 14 for constructing water-works for the village of Summerville, as stated in our advertising columns. Wm. Kiersted, Engr., 58 Water-Works Building, Kansas City, Mo.; E. F. Verdery, Mayor, Summerville.——Local papers state that an engineer is to be appointed to prepare plans and specifications for the proposed works. Mayor Young may be addressed.

MACON, GA.—The survey for the new pumping station and mains has been completed and the necessary machinery, etc., is to be ordered at once.

ATHENS, ALA.—Reports state that this town has disposed of $15,000 worth of 30-year bonds, and will apply the proceeds to the erection of a water plant. One hundred hands have already been put to work on the job and it will be completed as soon as is practicable. The water will be pumped from a spring to a tank 100 ft. high.

GREENSBORO, ALA.—It is reported that parties in Birmingham are negotiating for the purchase of the Greensboro water-works. If the trade is consummated the purchasers will establish an electric light plant and probably an ice factory.

BROOKHAVEN, MISS.—It is announced that Guild & White, Chattanooga, Tenn., have been awarded at $20,092, the contract for constructing the system of water-works and electric lights, excepting the tower, tank, pipe and special castings; the Howard Harrison Iron Co., Bessemer, Ala., the contract for pipe and ordinary special castings, at $8,628; and the Chicago Bridge & Iron Co., Chicago, Ill., the contract for steel water-tower, tank and foundation, at $4,316.

OPELOUSAS, LA.—The council has passed an ordinance authorizing the mayor to sign a contract with Sanders & Porter, Louisville, Ky., for the construction of the proposed electric light and water-works systems, at $29,850. C. J. Thompson, Pres. Bd. Aldermen; W. R. Cochran, Clk.

ADAIRVILLE, KY.—It is announced that this town is to have water-works. A steel tower is being erected in the park in the center of the town, and on this will be placed a reservoir of 35,000 gallons capacity. The water will be pumped to the reservoir from a spring, by means of a gasoline engine.

MONROEVILLE, O.—J. F. Henninger, Corporation Clk., writes us that this town voted Aug. 17 to construct water-works and electric light systems.

WEST ALEXANDRIA, O.—Reports state that R. N. Andrews, Hamilton, O., was the lowest bidder, at $12,000, for constructing works here.

SCOTTSBURG, IND.—D. J. Toombs, Cy. Marshal, writes us that this town is not contemplating the construction of works.

CHICAGO, ILL.—Reports state that the contract held by John P. Agnew for the erection of two pumping stations will be forfeited and new bids asked.

CHICAGO, ILL.—Bids are asked until Sept. 1 for constructing and delivering two 8-ft. cast-iron water gates, with necessary hoisting rods and gearing. L. E. M'Gann, Comr. Pub. Wks.

McHENRY, ILL.—Jas. H. Thompson, Engr., Chicago, informs us that the following bids have been received for constructing works:

S. I. Pope & Co.	$24,642
Todd & Gilbert	23,744
Nash & Dowdle	22,264
Chicago Bridge & Iron Co.	22,000
H. A. Keith & Co. (accepted)	21,662

BEAVER DAM, WIS.—Reports state that the Beaver Dam Water-Works are to be sold under foreclosure.

DAVENPORT, IA.—The Davenport Water Co. is about to enlarge its plant, according to report.

ROCK VALLEY, IA.—H. Schemmer, Mayor, writes us that $3,900 in bonds were voted Aug. 9 and were to be sold Aug. 24, the proceeds to be used in constructing works.

SLEEPY EYE, MINN.—At the election held Aug. 10 it was voted to issue bonds for constructing works.

CLEBURNE, TEX.—Reports state that the Cleburne Water, Ice & Lighting Co. is about to issue $60,000 in bonds for improvements.

ENNIS, TEX.—The Cold Storage, Ice, Power & Water Co. has been organized, with a capital stock of $75,000, to construct a plant having a capacity of 50 tons of ice, 2,000,000 gallons of water and 3,000 electric lights.

HUNTSVILLE, TEX.—Bids are asked until Sept. 7 for the purchase of $12,500 in 6% water-works bonds. J. G. Ashford, Mayor.

COLTON, CAL.—This city is considering the advisability of issuing $20,000 in bonds to perfect and maintain the water system.

OCEAN VIEW, CAL.—New mains are to be laid in sundry streets, according to reports.

SANTA CLARA, CAL.—C. D. Vincent, San Francisco, Cal., has been awarded at $1,115 the contract for constructing a reservoir at the water-works.

WASHINGTON, CAL.—The Washington Water & Light Co. has been organized to construct water-works. Pres., Wm. Wilson.

PRESCOTT, ARIZ.—J. J. Fisher, Cy. Engr., has reported to the council showing the estimated cost of storage reservoirs on Banning Creek to be $7,168 for the lower one, $111,174 for the upper one and $46,466 for the masonry dam.

OGDEN, UTAH.—Geo. W. Jones introduced a resolution in the council providing that the attorney draft an ordinance for the issuance of $250,000 in bonds, as authorized by the recent bond election, money to be used to purchase or construct a water system.

HULL, QUE.—An election is to be held, according to reports, to vote on the question of issuing $50,000 in bonds for water-works extensions.

PERTH, ONT.—Reports state that a company has been organized with a capital stock of $50,000 to construct works in this town. John Haggart, W. A. Allan, Sanford Fleming, Jr., and R. G. Cole are said to be interested.

RENFREW, ONT.—The contract for constructing the water-works and sewer systems has been awarded to the Three Rivers Iron Works Co., Montreal, at $51,874. This does not include the pumping house and plant, contracts for which are yet to be let.

SUMMERSIDE, P. E. I.—This town is considering the proposition made by the Three Rivers Iron Works Co., Montreal, to construct water-works and sewer systems.

BRAZIL.—Advices from Brazil state that San Carlos de Pinhal, with 12,000 inhabitants; Rio Claro, with 10,000; Araraquera, with 8,000; Pirasununguа, with 6,000, are contemplating the construction of water-works. In some 15 towns, with populations ranging from 5,000 to 15,000, water-works are already under way. According to recent decree all the cities and large towns of San Paulo province are obliged to provide themselves with drinkable water, and plans are being everywhere studied.

IRRIGATION.

WINCHESTER, CAL.—A special election will soon be held in San Jacinto & Pleasant Valley Irrigation District for the purpose of levying a special assessment of $4,000 for purpose of enlarging the Webster ditch, etc. Secy., R. T. Lang.

LANCASTER, CAL.—Bids are asked by the Board of Directors of the Little Rock Creek Irrigation District, until Sept. 27, for the purchase of $14,000 in bonds.

FORT COLLINS, COLO.—It is reported that the Morse Reservoir and Morse Reservoir Inlet Ditch Co., will construct a reservoir with a storage capacity of 28,900,000 cu. ft., and a ditch with a capacity of 26½ cu. ft. of water per sec.

NEW COMPANIES.—Artesian Belt Water Co., San Dimas, Cal.; $30,000, with $20,794 paid in; to acquire and develop water rights and build pipe lines, etc.; B. F. Allen, E. M. Wheeler, J. H. Judson, W. D. Ellis and H. W. Johnstone, all of San Dimas.

SEWERAGE.

SOUTH PORTLAND, ME.—A sewer is to be constructed in Stanford St., according to reports; estimated cost, $2,600.

BOSTON, MASS.—The following bids were received Aug. 19 for constructing a brick sewer, drains, connections, etc., in Peterboro St., including about 1,720 lin. ft. earth excavation, 124,000 ft. of lumber, 1,800 lin. ft. of 8-in. and 88 ft. of 6-in. pipe under drain, 1,000 spruce piles, 113 lin. ft. of 18-in. pipe sewer, 440 cu. yds. of concrete, 404 cu. yds. brick masonry laid in American cement, 154 pipe connections, etc.: R. B. Malone, $16,040; Metropolitan Construction Co., $18,317; B. R. Felton, $20,229; C. A. & C. E. Trumbull, $15,430; Neil McBride, $19,737; Cullen Bros., $13,222 (accepted); D. E. Lynch, $16,107; H. P. Nawn, $14,339; H. A. Hanscom & Co., $15,079; J. P. O'Connell, $14,441; D. F. O'Connell, $15,079.

LYNN, MASS.—It is reported that bids are asked for extending the outfall sewer 1,000 feet, work to be completed by Oct. 1, 1898. E. H. Smith, Cy. Engr.

BUFFALO, N. Y.—The council has directed the board of public works to prepare plans and specifications for the construction of 18 to 30-in. pipe, and 36 to 45-in. brick sewers in various streets. E. B. Guthrie, Cy. Engr.

NEW YORK, N. Y.—Bids are asked until Sept. 2 for constructing sewers in sundry streets. Louis F. Haffen, Comr. St. Improvements, Third Ave. and 177th St.

ROCHESTER, N. Y.—Bids are asked until Aug. 27 for constructing sewers in sundry streets. Thos. J. Neville, Clk; Edwin A. Fisher, Cy. Engr.

PASSAIC, N. J.—The council has passed an ordinance providing for the construction of 8-in. pipe sewers, with flush tanks, manholes, etc., in Quincy and Jefferson Sts. R. B. Tindall, Cy. Clk.

NEWARK, N. J.—Bids are asked until Aug. 26 for constructing a trunk sewer in Verona Ave.; also for constructing a sewer in Bergen St., Hawthorne Ave. and Peddie St. J. Crowell Mundy, Gen. Supt. Wks. Ernest Adam, Engr. Bd. St. and Water Comrs.

SOMERVILLE, N. J.—Bids are asked until Sept. 13 for constructing about four miles of 8 to 20-in. pipe sewers, as stated in our advertising columns. James J. Bergen, Pres. Comrs.

PARKERSBURG, W. VA.—Bids are asked until Sept. 8 for the purchase of $30,000 in 5% bonds for constructing a new sewer system and a city hospital, one-half the proceeds to be used for each purpose.

AUGUSTA, GA.—Bids are asked until Sept. 14 for constructing a sewer system in the village of Summerville, as stated in our advertising columns. William Kiersted, Engr., Kansas City, Mo.; E. F. Verdery, Mayor, Village of Summerville. (P. O., Augusta.)

CINCINNATI, O.—Bids are asked until Sept. 15 for constructing a trunk sewer in Bloody Run. Aug. Herrmann, Pres.; A. P. Butterfield, Clk. Bd. Administration.

CLEVELAND, O.—Bids are asked until Sept. 16 for constructing a 1,080-ft. sewer in Chandler St., and until Sept. 17 for constructing a sewer in Forest St. Geo. R. Warden, Dir. Pub. Wks.——Wm. Lehman has been awarded, at $4,753, the contract for constructing a sewer in Detroit St.; Bernard McCarthy has been awarded, at $9,631 and $23,814, contracts for constructing sewers in Detroit St. and Gordon Ave.

EVANSTON, O.—Bids are asked until Sept. 20 for constructing sewers in sundry streets. Wm. H. Krapp, Clk. Council; D. S. Hosbrook, Engr., Room 64, Pickering Bldg., Cincinnati, O.

LIMA, O.—Bids are asked until Aug. 30 for constructing a sewer in South Main St. C. E. Lynch, Cy. Clk.

HAMMOND, IND.—Bids are asked until Sept. 7 for furnishing all material and constructing pipe sewers in sundry streets. W. F. Bridge, Cy. Engr.

FLINT, MICH.—The council has ordered a sewer constructed in Saginaw St., according to reports.

JACKSON, MICH.—Bids are asked until Aug. 31 for constructing a pipe sewer in Franklin St. C. E. Ulrickson, Supt. Pub. Wks.; R. M. Newman, Cy. Engr.

LAKE BLUFF, ILL.—This town is considering the construction of a sewer system, according to reports.

WEBSTER CITY, IA.—The council is considering the construction of a sewer system at an estimated cost of about $25,000.

MINNEAPOLIS, MINN.—F. W. Cappelen, Cy. Engr., estimates that about 62,800 ft. of sewers will be constructed in 1898, at an estimated cost of about $330,297.

MARSHALL, MO.—Bids are asked until Sept. 8 for constructing sewers, manholes, flushtanks, etc. A. R. James, Cy. Clk.

OMAHA, NEB.—Bids are asked until Aug. 27 for constructing sewers in sewer districts Nos. 218 and 219. Andrew Rosewater, Chn.; William Coburn, Secy. Bd. Pub. Wks.

RIVERSIDE, CAL.—Bids are asked until Aug. 31 for constructing sewers in Main St., Victoria Place, Orange St., Orange Grove Ave., Lemon and Lime Sts. W. W. Phelps, Cy. Clk.

COLLINGWOOD, ONT.—This town is considering the construction of a sewer system. Willis Chipman, C. E., 103 Bay St., Toronto, is said to have been in consultation with the council concerning same.

GODERICH, ONT.—Bids are asked until Aug. 30 for constructing about two miles of 6 to 12-in. pipe sewers. Wm. Mitchell, Town Clk.; W. C. Brough, Engr.

LONDON, ONT.—H. Behariell, 54 Adelaide St., Toronto, is said to have been awarded, at $8,253, the contract for constructing sections "G" and "H" of the new sewer system.

RENFREW, ONT.—The contract for constructing the proposed sewer and water-works systems has been awarded to the Three Rivers Iron Works Co., Montreal, Que., at $51,874. This does not include the pump-house and pumping machinery, contracts for which have not been let as yet.

SUMMERSIDE, P. E. I.—This town is considering the proposition, made by the Three Rivers Iron Works Co., Montreal, to construct water-works and sewer systems.

GARBAGE DISPOSAL—STREET CLEANING.

FORT MYER, VA.—The following bids were received Aug. 16 by Capt. J. W. Summerhayes, Constructing Q. M., for constructing a crematory:

James O'Day, Washington, D. C.	$2,329
W. M. Crilly, Chicago, Ill.	2,180
R. W. Darby, Washington, D. C.	2,261
Washington Construction Co., Washington, D. C.	4,688
Wm. F. Walling, Washington, D. C.	1,691

MINNEAPOLIS, MINN.—Bids are asked until Sept. 10 for the collection and disposition of garbage, dead animals, ashes, etc.; postponement from Aug. 27. Dr. H. N. Avery, Comr. of Health; L. A. Lydiard, Cy. Clk.

REDLANDS, CAL.—Mr. Beal is negotiating for the purchase of a street sweeper, according to reports.

STREETS AND ROADS.

EAST WINDSOR, CONN.—Bids are asked by the board of selectmen until Sept. 1 for grading and graveling a section of the Broad Brook Road. H. W. Allen, Selectman.

NEW BRITAIN, CONN.—Bids are asked until Aug. 31 for grading and constructing about 2,664 ft. of the Newington Road. Charles H. Smith, Selectman; W. H. Cadwell, Engr., 213 Main St., New Britain.

PORTLAND, CONN.—Bids are asked until Aug. 31 for constructing about 1,900 ft. of telford and macadam road. James H. Pelton, Selectman.

ROCKY HILL, CONN.—Bids are asked until Aug. 31 for building about 4,550 ft. of macadam and telford road on the main street to Wethersfield. Owen K. Havens, Selectman.

VERNON, CONN.—Bids are asked by the board of selectmen, Memorial Bldg., Rockville, Conn., until Sept. 4 for grading and macadamizing a section of the Talcottville Road; bond required, $1,000. John E. Fahey, Selectman; Jas. H. Macdonald, Chn. State Highway Commission, Hartford, Conn.

ALBANY, N. Y.—Bids will soon be asked for the brick paving of portions of Morris, Hamilton, Pearl and Westerlo Sts., Ash Grove Place and Livingston Ave.—The board of contract and apportionment, Aug. 16, awarded the contract for the brick paving of Elk St. from Quail and Ontario Sts., to E. F. Dillon, at $6.93. Thos. J. Lanahan, Clk. Bd.

BROOKLYN, N. Y.—Bids are asked until Sept. 1 for the repaving of sundry streets with asphalt; total bond required, $37,750. Theo. B. Willis, Comr. Cy. Wks.

BUFFALO, N. Y.—The following bids have been received by the department of public works, R. G. Parsons, Secy., for paving Jefferson St., between Swain and Best Sts., with asphalt; Utica Paving Co., $47,690; Barber Asphalt Paving Co., $49,995; P. B. McNaughton (brick), $33,634; Columbia Construction Co., $58,245; German Rock Asphalt & Cement Co., $69,990.

NEW YORK, N. Y.—Bids are asked until Sept. 2 for regulating, grading, setting curb-stones, flagging the sidewalks, etc., in Crotona Park, South, from Fulton to Prospect Ave.

ROCHESTER, N. Y.—Bids are asked until Aug. 27 for repairing the asphalt paving on Alexander St., estimated cost, $1,000; and until Aug. 30 for paving Court St. with Medina block pavement, estimated cost, $20,000. Thos. J. Neville, Cy. Clk.; Edwin A. Fisher, Cy. Engr.

STAPLETON (S. I.), N. Y.—Bids are asked by the board of supervisors, Savings Bank Bldg., Stapleton, until Sept. 8 for the purchase of $260,000 of Richmond county road-improvement bonds. Franklin C. Vitt, Clk. Bd.

TROY, N. Y.—William Fitzsimmons has been awarded the contract for the brick paving of 9th St., from Middleburgh to Hoosick St., at $16,398. Martin Schenck, Cy. Engr.

TROY, N. Y.—Bids are asked until Aug. 27 for 540 ft. of brick paving on Harrison Place. E. Ogden Ross, Secy. Bd. of Contract; Martin Schenck, Cy. Engr.

PATERSON, N. J.—Bids are asked by the board of freeholders until Sept. 10 for grading and macadamizing 20th Ave., from Vreeland Ave. to the Boulevard. Ed. N. Kevitt, Chn.; William Whitmore, County Engr., Savings Institution Bldg., Paterson.

CRAFTON, PA.—Bids are asked until Aug. 27 for grading about 580 ft. of White Ave. F. R. C. Perrin, Borough Clk.

DARBY, PA.—Bids are asked until Sept. 4 for constructing a macadam roadway and vitrified brick gutters upon Pine St., from the Baltimore & Ohio R. R. to the Chester Turnpike. C. E. Drewes, Chn. Highway Com.

DORRENCETON, PA.—Bids are asked until Aug. 28 for grading and laying about 1,200 ft. of telford pavement on Wyoming Ave. J. Ford Dorrance, Chn. Council Com.; N. B. Rutter, Borough Engr.

PITTSBURG, PA.—The following bids have been received for improving the first three miles of the Verona Road, leading out of Pittsburg: Booth & Flinn (accepted), $29,438; Sweeney & Houston, $43,720; Jutte & Foley Co., $39,510; Fred Gwinner, Jr., $47,643; Stratton & Lewis, $37,092; Keeling & Ridge, $34,010; C. I. & A. W. McDonald, $39,128; Driver & Scanlon, $42,695; Dixon & Challis, $35,815; W. E. Howley, $32,256.

BALTIMORE, MD.—Bids are asked until Aug. 30 for the grading, paving and curbing of portions of Kirby's Lane, McElderry and Richardson Sts. W. A. Hanway, Cy. Comr.

TUSCUMBIA, ALA.—Bids are asked by the commissioners of Colbert county, until Sept. 3, for constructing a road leading from Leighton south; a road from Sheffield east; a road from Cherokee south; and a graveling road from Albert Guy's to Tuscumbia, Ala.; estimated cost, $100,000. Plans and specifications can be obtained from City Engineer Proctor, at Sheffield, Ala.

CINCINNATI, O.—Bids are asked until Sept. 8 for the grading and brick paving of part of Carrie St.; also until Sept. 15 for the grading and macadamizing of part of Highland Ave., and for the grading and paving with asphalt of Bates Ave., from Colerain to Spring Grove Ave. August Herrmann, Pres. Bd. Administration.

CLEVELAND, O.—Bids are asked until Sept. 2 for the grading, brick paving, etc., of 930 ft. of Woodland Court; deposit required, $300. George R. Warden, Director Pub. Wks.

MADISONVILLE, O.—Bids are asked until Sept. 4 for grading and macadamizing portions of Central and Bramble Aves.; also for constructing cement sidewalks on the same. Bennett Carter, Village Clk.

HAMILTON, O.—Bids are asked until Sept. 7 for the purchase of $29,464 of street improvement bonds. M. O. Burns, Clk. Bd. Sewer Comrs.

MOUNT HEALTHY, O.—Bids are asked until Sept. 8 for the purchase of bonds aggregating $5,000; such bonds to be issued to pay for half of the expense of sidewalk improvements in this village. A. B. Domm, Village Clk.

BLOOMINGTON, IND.—The following contracts have been awarded for constructing sections of highway in Monroe county; for the Harrodsburg and Smithville Road, Campbell & Donaldson, at $20,172; for Stinesville and Bloomington Road, Blevins and Steele, at $3,690; for Ellettsville and Worthington Road, Kerr & Dixon, at $4,237; for Tabor Hill and Owen County Road, Blevins & Steele, at $5,200; for Griffy Creek and Gosport Road, Hensley & Farr, at $7,800; for Ellettsville and Mt. Tabor, James Gilpin, at $7,068.

GRAND RAPIDS, MICH.—Sullivan & Higgins have been awarded the contract for improving Bates St., from East to Fuller St., with gravel, at $7,383.

CHICAGO, ILL.—Bids are asked until Sept. 1 for improving sundry streets; deposit required, $1,000. L. E. M'Gann, Comr. Pub. Wks.

KEOKUK, IA.—Bids are asked until Aug. 31, according to reports, for about 1,320 sq. yds. of macadamizing and 667 sq. yds. of brick paving. G. M. Walker, Cy. Engr.

MASON CITY, IA.—Bids are asked until Sept. 4 for paving about 9,500 sq. yds. of Main St. with brick, and for about 3,000 lin. ft. of cement curbing, as stated in our advertising columns. W. P. Fitch, Cy. Clk., O. E. Stanley, Cy. Engr.

ST. PAUL, MINN.—Fielding & Shepley have been awarded the contract for paving Broadway, from 3d to 7th St., with sandstone, at $9,470. John Copeland, Comr. Pub. Wks.

KANSAS CITY, MO.—Bids are asked until Sept. 1 for grading and macadamizing about 2 miles of Woodland Ave. Thos. J. Callahan, County Surveyor.

ST. JOSEPH, MO.—Bids are asked until Sept. 6 for grading the Garrettsburg Road from Saxton Station to Garrettsburg; also for grading two hills south of Taos, Mo. Theo. Steinacker, County Surveyor.

ATCHISON, KAN.—The following bids were received Aug. 17 for the repaving with brick of Kansas Ave., from 4th to 10th St.:

Atchison Paving Brick Co.	$12,226
J. M. Lane & Co.	12,508
O. W. Uhrich	12,619
J. M. Iddings	12,627
A. L. Kimball	12,756
J. G. Thayer	13,518

HOUSTON, TEX.—Bids are asked until Sept. 6 for the paving in the 5th Ward. L. A. Gueringer, Cy. Engr.

MARYSVILLE, CAL.—Bids are asked until Sept. 7 for grading and draining a part of Kimball Lane. Gordon Boroman, Clk. Bd. Yuba County Supervisors.

SHAWVILLE, QUE.—Reports state that this town will soon purchase a road machine.

TORONTO, ONT.—Bids are asked until Sept. 1 for constructing gravel roadways on Lisgar St., Beaconsfield and Peel Aves. Mayor John Shaw, Chn. Bd. Control; E. H. Keating, Cy. Engr.

MANUFACTURING PLANTS.

AUGUSTA, ME.—The Boyd & Cary Shoe Co. has been organized in this city, with a capital stock of $100,000. It is proposed to erect a 5-story factory building, 180 x 40 ft. C. S. Richborn, Pres. Augusta Bd. of Trade, is a director in the company.

CHEPACHET, R. I.—The woolen mill of Henry C. White & Son at this place was destroyed by fire on Aug. 20. Reported loss, $200,000; insurance, $150,000.

TROY, N. Y.—Bids are being received by Lawlor, Cavanaugh & Co. for a 7-story brick and stone cold storage building, 50 x 100 ft., and for a machine and a boiler house, each to be 1½ stories high; estimated cost, $50,000. Archs., Fred. W. Wolfe & Co., 139 Rees St., Chicago, Ill.

PAULSBORO, N. J.—A fire at this place Aug. 22 destroyed the phosphate works of D. P. Thompson. Total estimated loss, $200,000; insurance, about $170,000.

WOODBRIDGE, N. J.—The plant of the Staten Island Terra Cotta Lumber Co., at Spa Springs, near this place, was burned Aug. 20, causing a loss of about $40,000.

MOUNT CARMEL, PA.—Plans are being prepared for the Anthracite Brewing Co., of this place, for a new 4-story brick brewery, to cost about $100,000. Arch., Adam C. Wagner, 514 Walnut St., Philadelphia, Pa.

GROVE CITY, PA.—A fire at this place Aug. 21 destroyed the McKay carriage works and adjacent buildings. Reported loss, $45,000; insurance, about $20,000.

PITTSBURG, PA.—The Fort Pitt Bridge Co. has been awarded the contract for erecting a 4-story kettle building, 40 x 100 ft., for W. & H. Walker, Herrs Island, manufacturers of soap, candles, etc.

LORAIN, O.—Press reports state that the Johnson Co. will erect new blast furnaces costing $1,000,000; also a large coke manufactory, as well as other buildings. The total cost is estimated at about $2,000,000.

SAN FRANCISCO, CAL.—It is reported that a syndicate headed by George W. McNear will establish a beet sugar plant at Crocketts, Contracosta county. The amount to be invested is placed at $2,500,000.

PORTLAND, ORE.—A fire in this city Aug. 23 destroyed the warehouse of W. P. Fuller & Co., plate glass manufacturers, at 13th and Johnston Sts.; reported loss, about $50,000.

GAS PLANTS.

METHUEN, MASS.—This town has decided to replace a number of electric street lamps with Welsbach lights, according to reports.

ROME, N. Y.—It is reported that gas wells are to be drilled by the Rome Bathtub Works; Mayor W. J. P. Kingsley and Supt. Hazleton, of the Rome Brass & Copper Co.

MOBILE, ALA.—The Pintsch Gas Co. is constructing a new plant here, according to reports, to supply gas to railroad cars, channel lights, etc.

EAST LIVERPOOL, O.—The J. W. McClurg Gas Co. has been granted a franchise to install a $100,000 artificial gas plant here. Pres. J. W. McClurg, Pittsburg, Pa.

GRAND RAPIDS, MICH.—The council has decided to introduce Welsbach lamps for street lighting, and will place 30 at once as an experiment.

SOUTH OMAHA, NEB.—Reports state that the Consumers' Gas Light, Heat & Supply Co. has applied for franchise to construct and operate a gas plant here.

CORVALLIS, ORE.—J. H. Wilson is said to have been granted a franchise for the operation of a gas plant in this town.

WINNIPEG, MAN.—Riter & Conley, Pittsburg, Pa., are said to have been awarded the contract for constructing the new double lift holder for the Manitoba Electric & Gas Light Co. It is to be 23 ft. deep, 97 ft. in diameter, and to have a capacity of about 300,000 cu. ft.

NEW COMPANIES.—American Gas & Coke Co., Phoenix, Ariz.; $1,000,000; to manufacture coke, gas, etc., and operate chiefly in Southern California. T. S. C. Lowe, T. Lowe, L. P. Lowe.

Peoples Gas Co., Irvington, N. J.; $50,000, with $25,000 paid in; to supply illuminating gas. Philip N. Jackson, Dudley Farrand, L. D. H. Gilmour, Newark; Jas. Edwards, Thos. H. Jones, Irvington, N. J.

Oil City Co., Corsicana, Tex.; $10,000; to develop oil lands; Jas. Garrity. A. M. Milligan, S. W. T. Johnston, et al.

Canadian Calcium Carbide Co., Woodstock, N. B.; $10,000,000; to manufacture gas; A. G. Blair is said to be interested.

MISCELLANEOUS CONTRACTS.

FIRE BOAT.—New Orleans, La.—It is more than likely that this city will purchase a fire boat.

WIRE AND SUPPLIES.—Boston, Mass.—The Hudson Machine Co., 40 State St., want bids on 48 miles of No. 6 insul. copper wire, a 150-HP. engine, and a 150-HP. boiler.

PARK IMPROVEMENTS.—New York, N. Y.—Bids are asked by the department of parks until Sept. 7, for the improvement of St. John's Park, including all material and labor.

TOOLS.—Cleveland, O.—Bids are asked until Aug. 27 for supplying furniture, tools, etc., for use of the Marine Hospital Service at this place. D. A. Carmichael, surgeon in charge.

REPLATING HULL.—Cincinnati, O.—Bids are asked until Oct. 14 for replating the hull of the snag boat "E. A. Woodruff." Maj. W. H. Heuer, U. S. Engrs. Office, Custom House.

STONE.—Agawam, Mass.—Bids are asked until Sept. 1 for furnishing and delivering 400 cu. yds. of broken stone. Woodward Emery, Chn. Bd. Harbor and Land Commrs., Boston, Mass.

SUPPLIES.—Montgomery, Ala.—Bids are asked until Sept. 22 for sundry supplies, to be delivered at Fort Pickens, Fla., as described in our advertising columns. Maj. F. A. Mahan, U. S. Engrs.

SCOW AND BOAT.—Sibine Pass, Tex.—Bids are asked until Oct. 18 for building a dredge boat and scow, to be used in harbor improvement. Maj. James B. Quinn., U. S. Engrs., 349 Carondelet St., New Orleans, La.

BUILDING FIRE PUMP.—New York, N. Y.—Bids are asked until Sept. 1 for labor and material required in building a fire pump to be placed on a fire boat. H. de B. Parsons, Supervising Engr. Fire Dept., 157 East 67th St.

DREDGING AND ROCK EXCAVATION.—Washington, D. C.—Bids are asked until Sept. 25 for dredging and excavating rock in sundry rivers in Virginia, as stated in our advertising columns. Lt.-Col. Chas. J. Allen, U. S. Engrs., 601 18th St., N. W., Washington.

CANAL EXCAVATION, ETC.—Chicago, Ill.—Bids are asked until Sept. 23 for constructing about eight miles of the Illinois & Mississippi Canal, as stated in our advertising columns. Jas. C. Long, Asst. Engr., Tiskilwa, Ill.; Maj. W. L. Marshall, U. S. Engrs., 1637 Indiana Ave., Chicago.

FERRY BOAT.—Boston, Mass.—The following bids were received for building a ferry boat to run between East Boston and the city proper: Columbia Iron Works & Dry Dock Co., Baltimore Md., $61,000; John M. Brooks, East Boston, Mass., $64,950; Atlantic Works, $63,450; or with modification, $62,950; Wm. McKie, East Boston, $63,000.

CONTRACT PRICES.

ASPHALT AND BRICK PAVING.—Binghamton, N. Y.—The following bids were opened Aug. 18 for paving, as advertised in Engineering News: Utica Paving Co., Utica, $1.59 a sq. yd. for Alcatraz asphalt with 5-year maintenance guarantee (accepted), or $1.89 with 10-year guarantee; Columbia Construction Co., Syracuse, $1.64 or $2 a sq. yd., respectively, for 5-year or 10-year guarantee, using Dundonald deposit Trinidad asphalt; A. S. Webb, Syracuse, $1.97½ for either 5-year or 10-year guarantee, using brick made by the New York Brick & Paving Co.

LEVEES.—Rock Island, Ill.—The following bids were opened by Lieut. Charles Keller, U. S. Engrs., Aug. 14, for construction of levees between Flint Creek and Iowa River, as advertised in Engineering News; (1) Sections 23-27, 300,000 cu. yds. earthwork in place; (2) Sections 28-32, 335,000 cu. yds. earth work in place:

Bidder.	A cu. yd. 1.	2.	Total.
Cameron, McManus & Joyce, Keokuk	$0.15	$0.16	$98,600
Murray Bros., Dubuque, Ia.	.14	.145	90,575
John J. McCaughey, Summit, Ill.	.1025	.115	69,275
*McDonnell & Kennedy, Fargo, N.Dak.	.889	.1074	62,649
Callahan Const'n Co., Omaha, Neb.	.1275	.13	81,800
John A. O'Keefe & Co., Omaha, Neb.	.1175	.135	80,475
J. W. Thompson, St. Louis, Mo.	.1139	.1139	72,327

*Recommended for acceptance.

PARK WORK.—New York, N. Y.—The following bids were opened by the department of parks Aug. 23 for the improvement of park bounded by 7th Ave., St. Nicholas Ave. and 117th St.:

Quantities.		James Flanagan, $2,600.	P. J. Kane, $2,087.	Cornelius O'Grady, $2,200.	Jno. J. Hopper, $2,480.	J. Slattery, $2,370.
Earth excavation	100 cu. yds.	$1.50	$0.90	$1.00	$1.00	$0.90
Garden mold fur.	350 " "	1.80	1.50	1.50	1.50	1.60
Bluestone edging	270 lin. ft.	1.25	.75	1.15	.35	.75
Concrete pvmt.	5,000 sq. ft.	.22	.21	.18	.30	.18
Gravel in place.	40 sq. yds.	2.75	2.50	2.25	2.50	2.00
Pipe fence	270 lin. ft.	1.00	.80	.99	.60	2.00

LAYING WATER MAINS.—New York, N. Y.—The following bids were opened by the department of public works Aug. 24 for laying water mains:

Quantities.		J. S. Rogers, 1031 Trinity Ave.	J. Cornwall, Jr., 69 E. 127th St.	Martin Lipps, 2358 3d Ave.
Rock excavation	600 cu. yds.	$0.19	$2.40	$0.19
Earth excavation	7,500 " "	.19	.20	.19
Filling	7,800 " "	.19	.10	.19
12-in. pipe, to lay	600 lin. ft.	.19	.28	.60
6-in. " " "	16,000 " "	.19	.18	.15
12-in. stop cocks, etc., set	2	6.00	6.00	5.00
6-in. " " "	30	6.00	5.00	5.00
"A" hydrants, to set	50	6.00	8.00	7.00
Relay pavement	500 sq. yds.	.30	.01	.01
Granite pavement	200 " "	1.00	.01	.01
Telford "	500 " "	.70	.01	.01
Curb and gutter reset	100 lin. ft.	.01	.01	.01
Brick masonry	3 cu. yds.	.01	.01	.01
Total		$7,368	$7,343	$6,324

PAVING RIVER BANK.—Corning, N. Y.—The contract for paving the river bank, as advertised in Engineering News, has been awarded by the board of river commissioners to Thos. Bradley, the bids being as follows: (1) being price a cubic yard for paving of the first kind, (2) for paving of the second kind, (3) price a lineal foot for placing and bolting timber:

	1.	2.	3.
Thomas Bradley, Corning, N. Y.	$5.10	$4.10	$0.45
R. E. Beardsley, Elmira, N. Y.	6.69	6.69	.62
Ferguson Contracting Co., New York	8.00	6.00	3.00
John Bradley, Corning, N. Y.	5.25	4.27	.54

DAMS AND SHORE PROTECTIONS.—Rock Island, Ill.—Lieut.-Col. Chas. Keller, U. S. Engrs., has recommended that the following lowest bids be accepted for constructing dams and shore protections, as advertised in Engineering News: Between Minneiska and Queen's Bluff, Minn., to Fetter & Crosby, La Crosse, Wis., at 98 cts. a cu. yd. for 20,000 cu. yds. of rock in place, and 19 cts. a cu. yd. for 60,000 cu. yds. of brush in place; total, $31,000. Between Hamburg, Ill., and the mouth of the Illinois River.—James Short, St. Charles, Mo., at 80 cts. for 35,000 cu. yds. rock, and 40 cts. for 55,000 cu. yds. brush; total,

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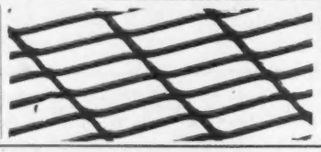
PITTSBURGH, 531 Wood Street.
NEW YORK, 256 Broadway.



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No. 120 Liberty Street.

PROPOSALS FOR FORGED STEEL PROJECTILES for Seacoast Cannon.—Ordinance Office, War Department, Washington, August 2, 1897.—Sealed proposals, in duplicate, will be received here until 3 o'clock p. m., September 2, 1897, and then publicly opened, for furnishing the Ordnance Department, U. S. Army, with the following projectiles, more or less: 195 8-inch A. P. shot (large core), 605 10-inch A. P. shot (large core), 150 12-inch A. P. shot (large core), 270 12-inch D. P. mortar shell of 800 pounds weight, and 50 12-inch D. P. mortar shell of 1,000 pounds weight. Bids will be received for all or part of foregoing. Information furnished upon application to Brig. Gen. D. W. FLAGLER, Chief or Ord. 31-4t

U. S. ENGINEER OFFICE, Chattanooga, Tenn., August 2, 1897.—Sealed proposals for HIRE OF DREDGING PLANT will be received here until noon, Tuesday, August 31, 1897, and then publicly opened. Information furnished on application to DAN. G. KINGMAN, Capt. of Engrs. 31-4t

U. S. ENGINEER OFFICE, Army Building, New York, Aug. 9, 1897.—Sealed proposals, in triplicate, for furnishing RUBBLE AND PAVING STONE ON DIKES in Hudson River, New York, will be received here until 12 m., Sept. 9, 1897, and then publicly opened. Information furnished on application. WILLIAM LUDLOW, Lieut.-Col., Engrs. 32-4t

U. S. ENGINEER OFFICE, Duluth, Minn., July 10, 1897. — Sealed proposals for building TWO BREAKWATER PIERS, each some 2,700 feet long, at Lake Superior Entrance to Portage Lake Ship Canals, Mich., will be received here until noon, Sept. 10, 1897, and then publicly opened. Information furnished on application. CLINTON B. SEARS, Major, Engrs. 28-8t

PROPOSALS FOR DREDGING IN GALENA RIVER, ILL.—U.S. Engineer Office, Rock Island, Ill., Aug. 7, 1897.—Sealed proposals, in duplicate, will be received here until 11 a. m., Sept. 7, 1897, and then publicly opened, for dredging in Galena River. Information furnished on application to Lieut. CHARLES KELLER, Engrs. 32-4t

Commonwealth of Massachusetts.

METROPOLITAN WATER BOARD.

LAYING WATER PIPES AND BUILDING SMALL MASONRY DAM.

Sealed proposals wil be received at the office of the Metropolitan Water Board, 3 Mt. Vernon Street, Boston, Mass., until 2:30 o'clock p. m., of Tuesday, Aug. 31, 1897, for four separate contracts:

CONTRACT No. 75 provides for the laying of 5,525 feet of 48-in. pipes in Framingham, Mass., from Dam No. 3 to the aqueduct below Dam No. 1, and building masonry at the connections with the dam and the aqueduct.

CONTRACT No. 77 provides for the laying of 11,500 feet of 20-in. pipes in Newtown and Watertown.

CONTRACT No. 78 provides for the construction of a small masonry dam near the upper end of Reservoir No. 5, in Southborough.

CONTRACT No. 79 provides for the laying of 16,000 feet of 24-in. pipes in Dorchester, Milton and Quincy.

Pamphlets containing further information for bidders, forms of proposal, contract and specifications, will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, 3 Mt. Vernon Street, and plans may be seen at his office. The printed forms must be used in making proposals. The Board reserves the right to reject any or all proposals, or to accept the proposals deemed best for the Commonwealth.

HENRY H. SPRAGUE, Chairman.
WILMOT R. EVANS,
HENRY P. WALCOTT,
Metropolitan Water Board.
FREDERIC P. STEARNS, Chief Engineer.
WILLIAM N. DAVENPORT, Secretary.
Boston, Aug. 17, 1897. 33-2t

BRIDGE PIERS.

P., D. & E. RY.

Sealed proposals will be received until Sept. 1, 1897, for the construction of bridge piers along the line of the Peoria, Decatur & Evansville Railway, at Evansville, Ind.; Grayville, Ill., and Newton, Ill. The work will require about 1,600 cubic yards first-class masonry in the piers, and about 4,000 lineal feet of piling in the foundations.

The right to reject any or all bids is reserved.

For plans, specifications, etc., call on or address

A. J. DAVIS, Engineer,
33-2t Mattoon, Ill.

BRICK PAVING.

LA GRANGE, ILL.

Sealed proposals for improving Spring, Waiola and Bell Avenues, with stone curb and brick pavement, will be received at the office of the Village Clerk of the Village of La Grange, Ill., until 8 p. m., sharp, Aug. 30, 1897.

All bids must be accompanied by a certified check on some responsible bank, or cash, for the sum of $500.00, payable to the Village of La Grange.

Plans and specifications may be seen at the office of the Village Clerk or Village Engineer.

The President and Board of Trustees hereby reserve the right to reject any or all bids.

A. H. HURD, Village Clerk.
W. B. EWING, Village Engineer.
La Grange, Ill., Aug. 9, 1897. 33-2t

OFFICE OF THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA, Washington, August 2d, 1897.—Sealed proposals, endorsed "Proposal to furnish WATER FILTERS," will be received at this office until 12 o'clock m., on Tuesday, September 7th, 1897. Blank forms of proposals and specifications may be obtained by addressing this office. A certified check for $100 on some bank in the District of Columbia, or a certificate of the Collector of Taxes of said District that $100 has been deposited with him, must accompany each proposal as a guarantee that the bidder will enter into contract as proposed by him if his bid should be accepted. The right to reject any and all bids is reserved. JOHN W. ROSS, JOHN B. WIGHT, W. M. BLACK, Commissioners, D. C. 31-4t

U. S. ENGINEER OFFICE, Charleston, S. C., Aug. 10, 1897.—Sealed proposals for furnishing and delivering materials and constructing a GUN EMPLACEMENT on Sullivan Island, S. C., will be received here until 12 m., Sept. 9, 1897, and then publicly opened. Information furnished on application. FREDERIC V. ABBOT, Capt., Engrs. 32-4t

The Collection, Removal and Final Disposition of Garbage, Ashes, Etc., for a Period of Five Years.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CHICAGO, August 3, 1897.

Sealed proposals will be received by the city of Chicago until 11 a. m., Friday, Sept. 3, 1897, for furnishing all wagons, carts, teams, machinery, tools, implements and labor of every description whatsoever necessary to collect and remove, and to collect and remove all garbage, ashes and rubbish from the streets, alleys and public places of said city, and to make such final disposition of the same as shall be necessary to comply with the specifications on file in the office of the Department of Public Works, for a period of five years commencing January 1, 1898.

Bidders may submit proposals for the work to be done in each district separately, or any number or all of said districts.

Proposals must be made out upon blanks furnished at said office, and be addressed to said Department, endorsed, "Proposals for Collection, Removal and Final Disposition of Garbage, Ashes, Etc.," and be accompanied with ten thousand ($10,000) dollars in money or a certified check for the same amount on some responsible bank doing business in the city of Chicago, and made payable to the order of the Commissioner of Public Works.

The Commissioner of Public Works reserves the right to reject any or all bids, and to accept bids as applied to each district separately, or any number of districts, or to let the whole in bulk, as he shall elect.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the Commissioner of Public Works of his ability, and that he has the necessary facilities, together with sufficient pecuniary resources, to fulfill the conditions of the contract and specifications, provided such contract should be awarded to him.

Companies or firms bidding must give the individual names as well as the name of the firm, with their address.

Bids will not be received after the hour above named.

L. E. McGANN,
32-3t Commissioner of Public Works.

PUMPING ENGINE FOR 68th ST. PUMPING STATION.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CHICAGO, ILL., August 5, 1897.

Sealed proposals will be received by the City of Chicago until 11 a. m., Monday, Sept. 6, 1897, for furnishing and erecting on the foundations to be constructed at the 68th Street Pumping Station in the City of Chicago, one horizontal compound condensing pumping engine of fourteen (14) million gallons capacity per twenty-four hours, with a total lift of one hundred and fifty (150) feet, together with necessary boilers and all accessories and appurtenances, according to plans and specifications on file in the office of the Department of Public Works of said city.

Proposals must be made out upon blanks furnished at said office, and be addressed to said Department, endorsed "Proposals for New Pumping Engine for 68th Street Pumping Station," and be accompanied with five thousand ($5,000) dollars in money or a certified check for the same amount on some responsible bank doing business in the City of Chicago, and made payable to the order of the Commissioner of Public Works.

The Commissioner of Public Works reserves the right to reject any or all bids. Due consideration will be given to general merits of design, durability of construction, economy of operation and maintenance, facility for repairs and proved performance and record of similar works in actual service elsewhere.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the Commissioner of Public Works of his ability, and that he has the necessary facilities, together with sufficient pecuniary resources to fulfil the conditions of the contract and specifications provided such contract should be awarded to him.

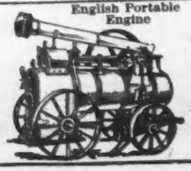
Companies or firms bidding will give the individual names as well as the name of the firm with their address.

L. E. McGANN,
32-3t Commissioner of Public Works.

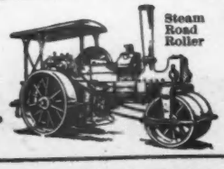
Other Proposals, Pages XXIV & XXV!

Road Locomotive

English Portable Engine



Steam Road Roller

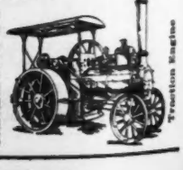


W. C. OASTLER
IMPORTER,
43 Exchange Pl.
NEW YORK.

Aveling & Porter's English Machinery.

Road Locomotive Crane Engine

Combined Boiler and Traction Engine



In Writing to Advertisers Kindly Refer to Your Having Seen the Notice in Engineering News.

$50,000. Between Rock Island and Kiethsburg, Ill.—Patterson Bros., Keokuk, Ia., at 80 cts. for 40,000 cu. yds. rock, and 20 cts. for 35,000 cu. yds. brush; total, $39,000. Between Dubuque and Le Claire, Ia.—Geo. W. Farley & Co., Dubuque, at 69 cts., for 20,000 cu. yds. rock, and 32 cts. for 40,000 cu. yds. brush; total, $26,600. Between Prairie du Chien, Wis., and Dubuque, Ia.—Albert Kirchner, Fountain City, Wis., at 90 cts. for 20,000 cu. yds. rock, and 19 cts. for 40,000 cu. yds. brush; total, $25,600; also for the work between Keokuk, Ia., and Quincy, Ill., at $1 for 20,000 cu. yds. rock, and 25 cts. for 40,000 cu. yds. brush; total, $30,000. The other contractors bidding on this work were as follows: A. B. Teasdale, Cassville, Wis., $1.00, 34 cts. and $33,600; A. J. Whitney, Rock Island, Ill., $1.00, 22 cts. and $28,800; Jacob Richtman, Fountain City, $1.10, 30 cts. and $34,000; Wm. P. Truax, Hastings, Minn., and Golike & Rust, Alton, Ill.

FORCE MAIN AND SEWAGE BEDS.—Spencer, Mass.—N. E. Craig, Engr., informs us that the contract for furnishing about 110 net tons of 12 and 10-in. cast-iron pipe for force main has been awarded to Chas. Millar & Son, and that for constructing about 10 acres of sewage disposal area for the town to Newell & Snowling. The bids were opened Aug. 19 and were as follows:

Cast-iron Pipe, a net ton, delivered at South Spencer.	
Chas. Millar & Son, Utica, N. Y.	$18.00
McNeal Pipe & Foundry Co., Burlington, N. J.	18.10
Donaldson Iron Co., Emans, Pa.	18.58
Warren Foundry & Machine Co., 100 B'way, N. Y.	20.00
Lester E. Wood, 100 Broadway, New York	18.50
R. D. Wood & Co., Philadelphia.	18.45

Bids for Constructing Sewage Disposal Beds, Spencer, Mass.

Bidder.	12-in. force main, 3,127 ft.	Distribution system.	Underdrain, 1,400 ft.	Grubbing, 8 acres.	Excavation, 48,000 cu. yds.	Stones picked, 50 cu. yds.	Rolling, 2,000 cu. yds.	Rock excavation, 20 cu. yds.	Plowing, 4 acres.	Plow and harrow, 9 acres.
Newell & Snowling, Uxbridge, Mass.	$1,400	$220	$0.11	$50.00	$0.15	$0.50	$0.05	$5.00	$4.00	$6.00
C. A. & C. E. Trumbull, Boston, Mass.	1,571	696	.15	40.00	.23	.35	.03	2.50	6.00	3.00
F. L. Allen, Worcester, Mass.	1,252	500	.15	100.00	.25	.50	.10	5.00	5.00	10.00
C. McDermott, Brockton, Mass.	1,045	360	.06	45.00	.19	.40	.03	4.00	4.00	5.00
F. Saucier, Boston, Mass.	1,159	327	.09	75.00	.18	.80	.02	2.00	4.00	6.00
Aab & Co., Waltham, Mass.	2,500	450	.12	150.00	.22	.002	.001	5.00	9.00	14.00
Warren & Wilson	1,200	570	.12	70.00	.20	.40	.03	4.00	3.00	4.00
R. D. Maynard, Springfield, Mass.	968	313	.08	100.00	.17	1.50	.10	4.00	5.00	7.50
J. O'Gara, Spencer, Mass.	1,290	425	.12	50.00	.18	.35	.02	4.00	2.00	3.00
Long & Little, Leominster, Mass.	850	335	.25	50.00	.23	.25	.05	4.00	4.00	6.00
L. A. Taylor, Boston, Mass.	1,150	350	.10	75.00	.19	.30	.03	4.00	10.00	12.00
T. Hennessy, Holden, Mass.	850	400	.12	80.00	.19	.50	.05	1.25	5.00	10.00
F. T. Ley & Co., Springfield, Mass.	1,500	300	.10	50.00	.20	.50	.03	2.50	50.00	70.00

PUMPING ENGINE.—Buffalo, N.Y.—The following bids were opened by the board of public works, Aug. 18, for a 30,000,000-gallon vertical triple expansion pumping engine (or its equivalent), in place complete:

Lake Erie Engineering Works, Buffalo	$64,250
Groshon High-Duty Pumping Engine Co., N. Y.	92,000
Holly Mfg. Co., hor. eng., $47,500; vertical	82,500
Henry R. Worthington, N. Y. city, ..$77,800 and	99,500
Buffalo Engineering Co., 4 direct-connected Quimby pumps, 30,000,000 gallons capacity, with General Electric Co.'s motors and a guarantee of the Niagara Power & Conduit Co. to furnish power to operate same at $30 a HP., complete.	59,400

It is said that the cost of operating the pumps by steam is now $60 a HP. If the latter bid is accepted no boilers, etc., will be required for the new pumping station.

DREDGING.—Rock Island, Ill.—The following bids were opened by Lieut. Charles Keller, U. S. Engrs., Aug. 14 for dredging, as advertised in Engineering News:

At Dubuque, Ia., 180,000 cu. yds.—	A cu.yd.	Total.
Richard W. Hosford, Dubuque, Ia.	$0.2375	$42,750
H. S. Brown, Quincy, Ill.	.1550	27,900
A. J. Whitney, Rock Island, Ill.	.15	27,000
Charles H. Appleton, Quincy, Ill.	.1490	*26,820
At Muscatine, Ia., 90,000 cu. yds.—		
A. J. Whitney, Rock Island, Ill.	$0.15	*$13,500
H. S. Brown, Quincy, Ill.	.155	13,950

*Recommended for acceptance.

INDUSTRIAL NOTES.

THE RIVERSIDE IRON CO., Wheeling, W. Va., is reported as taking on 200 more men in its pipe works.

THE PENN PLATE GLASS CO., Irwin, Pa., is reported as erecting a $50,000 casting house, which will be 165 x 200 ft.

MR. D. B. McCLELLAND, St. Paul Building, New York, has been appointed eastern sales agent for the Ohio Tube Co., Warren, O.

WM. SELLERS & CO., Philadelphia, Pa., will, it is reported, furnish two 20-ton electric cranes for the Schenectady Locomotive Works.

THE WHITAKER IRON CO., Wheeling, W. Va., is reported as again operating its plant, employing fully 500 men in the various mills.

THE ERIE CITY IRON WORKS, Erie, Pa., will furnish the Connellsville Electric Light Co., Connellsville, Pa., with two 250-HP. boilers.

FRASER & CHALMERS, Chicago, Ill., are reported as installing a concentrating plant near Libby, Mont., for Mr. G. L. Tracy, of Helena, Mont.

THE WATSON MACHINE CO., Paterson, N. J., is reported as receiving a $550,000 order for a cordage machinery plant to be installed in Mexico.

MR. WALTER C. McKINLOCK, Fort Dearborn Bldg., Chicago, Ill., has been appointed general western selling agent for the American Electric Fuse Co.

THE POTTSTOWN IRON CO., Pottstown, Pa., has started up its mills with orders which it is reported will keep the plant busy day and night for several months.

THE JEFFREY MFG. CO., Columbus, O., has, it is stated, five recent orders for complete 400-ton coal washing plants, known as the Jeffrey-Robinson system.

THE BUCKEYE MFG. CO., Anderson, Ind., is reported as recently receiving orders for 30 gas engines, ranging in size from the smallest to the largest the company at present manufactures.

THE VULCAN IRON WORKS, Chicago, Ill., will supply two of its No. 1 steam pile hammers to McArthur Bros'. Co. for driving the foundation piling for the new Chicago post office building.

THE CENTRAL IRON & STEEL WORKS, Harrisburg, Pa., are reported as rolling material for the Washington building, New York city. This mill is said to have recently rolled a bridge plate 88 ft. long.

THE ENSIGN MFG. CO., Huntington, W. Va., is reported as having an order from the Long Island R. R. Co., for three snow plows; also an order from the Southern Pacific R. R. Co. for 55 refrigerator cars.

R. S. NEWBOLD & SON, Norristown, Pa., are reported as shipping four 150-HP. boilers to the Germantown Spinning Co., Germantown, Pa., and an order for lime storage tanks to Houston Bros., Pittsburg.

THE JACKSON & SHARP CO., Wilmington, Del., has been awarded the contract for supplying the Argentine Great Western Ry. Co., Buenos Ayres, with five first-class sleeping cars 54 ft. long 10 ft. 3 ins. wide.

WM. B. POLLOCK & CO., Youngstown, O., through Mr. D. B. McClelland, of New York, is shipping to Mexico, a consignment of 22-in. riveted steel pipe for the construction of a siphon for the water supply of Licheria.

THE PENNSYLVANIA IRON WORKS CO., Philadelphia, Pa., which recently consolidated with the Siemens & Halske Electric Co., Chicago, is reported as owning $3,250,000 of the $5,225,000 of capital of the consolidated concern.

THE C. & C. ELECTRIC CO., Garwood, N. J., recently received an order from Japan for the electrical equipment of what it is claimed will be the largest car works in the Far East. Local and export orders will cause the company to run night and day for some time to come.

THE MOORE MFG. CO., Milwaukee, Wis., and the H. P. Nail Co., of Cleveland, O., have practically combined. According to report each company will retain its organization and management, but both will work together, the Moore company practically becoming a department of the Cleveland company.

R. D. WOOD & CO., Philadelphia, Pa., have the contract for furnishing two large hydraulic riveters to the Schenectady Locomotive Works, Schenectady, N. Y. This company is also reported as making an experimental order of electrical subway pipe, which, if successful, will obtain for it an order for 10,000 tons of such pipe.

THE SAFETY CAR HEATING & LIGHTING CO., New York, N. Y., has closed a contract with the Mobile & Ohio R. R. for equipping its cars with the Pintsch light and for erecting the necessary plant at Mobile. Another contract of recent date is with the Houston & Texas Central R. R., which calls for the equipment of the cars of this line with the company's steam heating system.

THE LASSIG BRIDGE & IRON CO., Chicago, Ill., has been awarded the contract for the construction of a new Mississippi River bridge at Louisiana, Mo. This bridge will replace the old Chicago & Alton R. R. bridge, and will have five spans of 158 ft., three spans, 257 ft., 226 ft. and 316 ft. long, and a draw of 440 ft. It is estimated that a year will be required to complete the structure.

THE KELLY-ATKINSON CONSTRUCTION CO., Chicago, Ill., has the contract for erecting 14 bridges along the line of the Missouri Pacific Ry., in Missouri, Arkansas and Indian Territory, replacing old structures. The company has just completed the raising of the Metropolitan Elevated Railway at its crossing of the C. & N. W. Ry., and P., C., C. & St. L. Ry., at Rockwell St., Chicago, and is now replacing some of the plate-girder spans of the Lake Street Elevated Ry. over the same tracks, with a three-truss pin-connected span of 124 ft. The girder spans adjoining the new truss span will be strengthened.

THE GILLETTE-HERZOG MFG. CO., Minneapolis, Minn., reports contracts aggregating over $500,000, as follows: For the Colorado Smelting Co., Butte, Mont., one steel furnace building 291 x 67 ft., including 1 10-ton electric traveling crane, 2 electric slag cars, 6 10-ton slag pots, etc.; for Leon Godchaux, Reserve Sugar Plantation, La., one steel building 173 x 158 ft.; also another 226 x 45 ft., with a 75-ft. tower; for Mr. De La Mar, Golden Gate Mills, Mercur, Utah, seven steel buildings 75 x 23 ft. 82 x 75 ft., 64 x 98 ft., 66 x 294 ft., 33 x 29 ft., 60 x 294 ft., 50 x 70 ft. This contract includes a number of tanks and ore bins and a steel machine shop. Mr. Frank J. Llewellyn, Ch. Engr., reports that the company will also furnish all the steel work for the Galveston courthouse, the Gatesville courthouse and the Beazoria county courthouse. Also a high school at Menominee, Wis., and the courthouse at Benson, Minn. In addition they have the contract for a steel blacksmith shop and a boiler house for the Anaconda Mining Co., Butte, Mont., and a boiler house for the Boston & Montana Co. The company is just completing the contract for the steel work of the 8 new buildings at Cherokee, Ia., for the Insane Asylum. In the bridge department the following have been recently built: 3 250-ft. and 3 150-ft. combination spans on steel caisson piers at Northport, Wash.; 3 riveted girder spans for the M. & St. L. Ry., and 2 riveted girder spans for the N. P. Ry.

NEW COMPANIES.—Acme Tripoli Filter Co., Des Moines, Ia.; $10,000; H. G. Rich, F. S. and E. P. Jaquith.

Becker Milling Machine Co., New York, N. Y.; $25,000; to manufacture milling machines and machine tools; George Becker and Philip Becker, Brooklyn, and W. J. Thompson, New York city.

Mazourka Mining & Water Co., Los Angeles, Cal.; $1,000,000, commencing with $630,000; Fred A. Hines, C. Franklin Campbell, Fred Manuel, J. R. Newberry and B. F. Orr, of Los Angeles.

Matthews American Armor Co., Baltimore, Md.; $2,500; to manufacture the Matthews ball and shell-proof compositions for the protection of armor plates; John L. Matthews, George Herman Hammerbacher, Deidrich F. Ormen, Henry F. Klostermann and Tobias Simon.

Smyth Electrical Co., Pasadena, Cal.; $300,000; to manufacture electrical ore-crushing machinery; G. F. Kernaghan, O. F. Ball, Joseph F. Smyth, H. M. Dobbins, R. Eason.

Isabella Furnace Co., Allegheny, Pa.; $1,250,000, commencing with $125,000; to manufacture iron and steel; Treas., J. Painter, Jr., Allegheny.

Blount's Mineral Well & Telephone Co.; to construct 25 miles of telephone line, to develop mineral wells, etc.; Pres., I. T. Blount, Water Valley, Ark.; Secy., H. T. Gaines, Pittsboro, Miss.; Treas., G. W. Armstrong, Coffeeville, Ark.

Mason, Hoge & King Construction Co., Charleston, S. C.; $50,000; A. E. Humphreys and George Davis, Charleston, S. C.; H. P. Mason, Frankfort, Ky.; and W. H. Bryant, Denver, Colo.

Union Storage Battery Co., Cleveland, O.; $10,000; F. C. Phillips, G. A. Ford, G. N. Sworidge.

Crouse-Tremaine Incandescent Lamp Co., Fostoria, O.; $50,000; Pres., J. B. Crouse; Vice-Pres., R. Crocker; Secy. and Treas., H. A. Tremaine.

Grant Ball Co., Cleveland, O.; to manufacture balls and ball bearings; $10,000; Jas. R. Garfield, H. A. Garfield, Robt. H. Grant, Frank J. Pool and Mortimer G. Fox.

Valley Limestone Co., New Castle, Pa.; $6,000, commencing with $600; to mine and quarry limestone and fire clay, etc.; Treas., John Reis, New Castle.

Connecting Construction Co., Lincoln, Neb.; $100,000.

Victoria Dredger Co, San Francisco, Cal.; $100,000; to dredge for precious metals; M. Selig, L. Hagan, L. Enoretl, R. W. M. Payne and C. F. Humphrey.

Felmlee & Long Mfg. Co., Pittsburg, Pa.; $50,000, commencing with $30,108; to manufacture the Felmlee patent wrapping machine and other specialties; John H. Felmlee, E. C. Long, Wm. A. Roberts, E. J. Fisher and R. B. Bland, Pittsburg.

Open Arc Carbon Co., Newark, N. J.; $120,000, commencing with $1,000; to manufacture and sell carbons for electric light purposes; Daniel Bacon and Wm. F. Netling, 108 Fulton St., New York.; Theo. B. Foote, Clark and Adams Sts., Chicago, Ill.

American Ceylon Graphite Co., Bound Brook, N. J.; $100,000, commencing with $1,000; to manufacture lubricants, bricks, etc.; W. J. Robinson, New York; E. T. Cushman and Gerald R. Cushman, Bound Brook, N. J.

Hascall Steam Generator Fiduciary Co., New York, N. Y.; $500,000, commencing with $125; to deal in machinery, electric railways, etc.; Geo. H. Graham, East Orange, N. J.; E. I. Rosenfeld, R. L. McDuffie, E. W. Demey and J. W. O'Neill, New York.

Washington Solar Light Machine Co., Washington, D. C.; $100,000, commencing with $100; to deal in gas machines, etc.; Alfred G. Coolidge, R. B. Bayly, Wm. B. Coolidge and Geo. E. Coolidge, Philadelphia, Pa.; L. T. Garrett, Bristol, Pa.

George Washington Mfg. Co., Jersey City, N. J.; $300,000, commencing with $300,000; to manufacture burners for gas, electricity, etc.; John C. McGuire, Brooklyn, N. Y.; Paul Halpin, New York; Chas. N. King, Jersey City.

Kitson Hydro-Carbon Heating & Incandescent Lighting Co., Charleston, W. Va.; $3,000,000, commencing with $50; to deal in systems for the production and transmission of heat, light, power and the use of hydro-carbons; W. E. Chilton, J. B. White, Henry Fry and F. N. Carr, Charleston.

WATER-WORKS.

MERIDEN, CONN., Aug. 24, 1897.

Sealed proposals for improving wasteway at Kenmere, in the Town of Berlin, will be received at the office of the Superintendent of Water-Works for the City of Meriden, until 8 p. m., Saturday, Sept. 4, 1897. Approximate quantities are as follows:

213 cu. yds. rubble masonry.
803 " cement paving.
300 " concrete.
5,500 ft. 3-in. white pine sheeting.
35,000 " chestnut timber in place.
400 cu. yds. of cobbles.
8,000 " of excavation.

Proposals must be made on blank forms furnished by the Supt. of Water-Works, and must be accompanied by a properly certified check for three hundred dollars, made payable to the City of Meriden. All work to be completed on or before the 25th day of November, 1897. The Supt. of Water-Works and the Water Committee reserve the right to reject any or all bids.

Further information may be obtained at the City Engineer's office, Room 2, Town Hall.

G. W. MILLER,
34-1t Supt. of Water-Works.

TREASURY DEPARTMENT, Office Supervising Architect, Washington, D. C., August 19, 1897.—Sealed proposals will be received at this office until 2 o'clock p. m. on the 9th day of September, 1897, and opened immediately thereafter, for all the labor and materials required for a new LIBRARY IN THE COURT ROOM of the U. S. Court House and Post Office at NEW YORK, N. Y., in accordance with drawings and specifications, copies of which may be had at this office or the office of the Superintendent of Repairs at New York, N. Y. Each bid must be accompanied by a certled check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. C. E. KEMPER, Acting Supervising Architect. 34-2t

OFFICE CONSTRUCTING QUARTERMASTER, JEFFERSON BARRACKS, MO., August 25, 1897.—Sealed proposals will be received here, until 11 o'clock a. m., September 24, 1897, and then opened, for constructing at Jefferson Barracks, Mo., ONE COMMANDING OFFICER'S QUARTERS; also plumbing, heating, and gas piping same, according to plans and specifications to be seen here. Proposals and instructions to bidders furnished on application. Government reserves the right to reject any or all proposals, or any part thereof. JNO. T. KNIGHT, Capt. and Asst. Q. M., U. S. A. 34-4t

Contract Work Should Always be Advertised in a Paper Read by Contractors.

Nearly Every Prominent Contractor and Manufacturer of Contractors' Supplies in North America Reads Engineering News.

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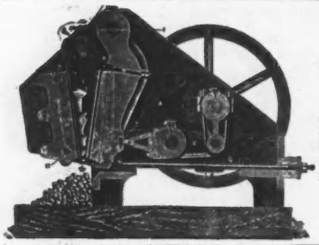
Refinery at Jones' Point.



WESTERN ROCK CRUSHER.

CHEAP. Simplest in Construction. **BEST.**

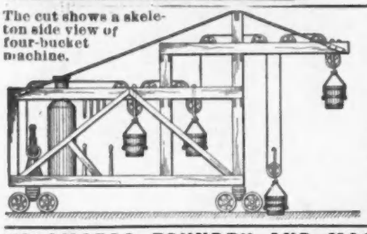
We also Manufacture:

Wheeled Scrapers, Drag Scrapers, Plows, Dump Cars, Dump Wagons, Road Graders, Wheelbarrows, Elevating Grader, Pitcher and Wagon Loader, and kinds of Contractors' Supplies.

Send for our 56-page Catalogue Valuable for reference.

Western Wheeled Scraper Co.
AURORA ILL.

The cut shows a skeleton side view of four-bucket machine.



THE JACKSON HOISTER AND CONVEYOR

For Excavating and Refilling all kinds of Trenches. We build three sizes, to carry 2, 3 or 4 buckets, holding 10, 18, or 27 cu ft. each, as desired. Car is self-propelled. Each bucket is independent of the other. Trucks under car are swiveled and will follow any curve and turn corners. **It requires only one man to run it.** Ask us more about it. Address **GEO. D. GRANNIS, Grand Opera House, Syracuse, N. Y.**

KALAMAZOO FOUNDRY AND MACHINE CO., Kalamazoo, Mich.

The simplest, strongest, most durable and cheapest Sewer Brace on the market.

THE ONLY BRACE MADE WITH STEEL SCREW.

EXTENSIBLE TRENCH BRACE.

The only trench brace that will, and has stood the test. Beware of cheap and worthless imitations.

Write for Prices and Circulars of our Patent Combined Iron and Timber Brace for large excavations.

THE DUNN MFG. CO., Limited.
Pittsburg, Pa.

Fibre Conduit.

Water, Brine, Acid, Drain and Gas Pipe and Electrical Conduit.

It is light, tough and strong, easily handled and rapidly laid.

It is non-absorbent, impervious and not effected by air, moisture, salts, acids, alkalies nor gas.

Will remain unchanged indefinitely in any soil or climate.

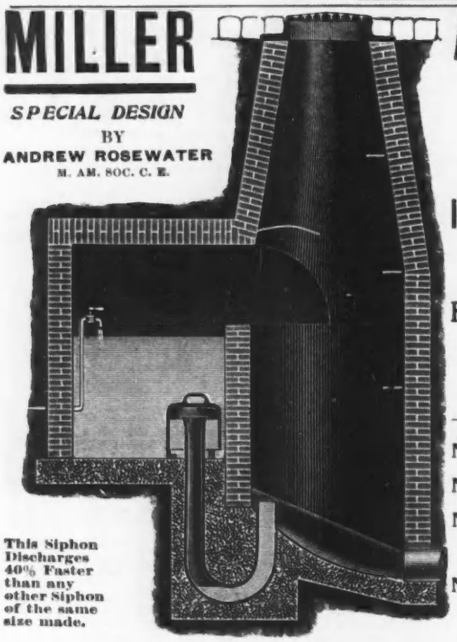
Does not expand or contract with heat or cold.

Has permanently tight joints.

POWER **POWER SPECIALTY CO.**
126 Liberty St., N. Y.

MILLER AUTOMATIC SIPHON

SPECIAL DESIGN
BY
ANDREW ROSEWATER
M. AM. SOC. C. E.



This Siphon Discharges 40% Faster than any other Siphon of the same size made.

—FOR—

INTERMITTENT FLUSH TANKS.

For Flushing Street Sewers and for Sub-Soil Irrigation.

No Moving Parts.
No Valves.
No Small Tubes to Clog or Choke.
Nothing Whatever to Get Out of Order.

SEE NEXT WEEK FOR STANDARD DESIGN.

Received Highest Award at World's Columbian Exposition of 1893 for

SIMPLICITY OF CONSTRUCTION, EFFICIENCY AND RELIABILITY.

We guarantee every Siphon to be absolutely reliable, no matter how small the supply stream may be.

MANUFACTURED BY

PACIFIC FLUSH TANK CO.,

Write for Catalogue and Prices. **84 La Salle St., CHICAGO.**

PUMPING ENGINE FOR FOURTEENTH STREET PUMPING STATION.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CHICAGO, July 30, 1897.

Sealed proposals will be received by the City of Chicago until 11 a. m., Wednesday, September 1, 1897, for furnishing and erecting on the foundations to be constructed at the 14th Street Pumping Station in the City of Chicago, one vertical condensing triple expansion pumping engine of thirty (30) million gallons capacity per twenty-four hours, with a total lift of one hundred and fifty (150) feet, together with necessary boilers and all accessories and appurtenances.

According to plans and specifications on file in the office of the Department of Public Works.

Proposals must be made out upon blanks furnished at said office, and be addressed to said Department, indorsed "Proposals for new pumping engine for 14th Street Pumping Station," and be accompanied with Eight Thousand ($8,000) Dollars in money, or a certified check for the same amount on some responsible bank doing business in the City of Chicago, and made payable to the order of the Commissioner of Public Works.

The Commissioner of Public Works reserves the right to reject any or all bids.

Due consideration will be given to general merits of design, durability of construction, economy of operation and maintenance, facility for repairs and proven performance and record of similar works in actual service elsewhere.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the Commissioner of Public Works of his ability, and that he has the necessary facilities, together with sufficient pecuniary resources, to fulfil the conditions of the contract and specifications, provided such contract should be awarded to him.

Companies or firms bidding must give the individual names as well as the name of the firm with their address.

Bids will not be received after the hour above-named.

L. E. McGANN,
Commissioner of Public Works.
by A. J. TOOLEM,
31-4t Deputy Commissioner of Public Works.

BOSTON SUBWAY.

NOTICE TO CONTRACTORS.—City of Boston.—Boston Transit Commission.—Sealed bids for building Section 11 of the Subway will be received at the office of the Commission, 20 Beacon Street, Boston, Mass., till 12 o'clock m. of Thursday, Sept. 2, 1897. Each bid must be accompanied by a certified check for the sum of $2,500. The section is under and near the site of the old Boston & Maine station at Haymarket Square. A portion of the subway will be an open incline, and the remaining portion will be covered. The structure will consist of a combination of steel and masonry. Some of the items are estimated to be as follows: 19,300 cubic yards earth excavation; 330 tons iron and steel, furnished by the Commission, to be set in place; 7,000 cubic yards concrete and brick masonry; 22,000 linear feet of piles in place. Plans can be seen and specifications and forms of contract can be obtained at 20 Beacon St., fifth floor. A bond will be required for the faithful performance of the contract in a sum of 20 per cent. of the amount. The Commission reserves the right to reject any and all bids and reserves the right to award the contract as it deems for the best interest of the city of Boston. GEORGE G. CROCKER, Chairman; CHARLES H. DALTON, THOMAS J. GARGAN, GEORGE F. SWAIN, HORACE G. ALLEN, Boston Transit Commission; HOWARD A. CARSON, Chief Engineer; B. LEIGHTON BEAL, Secretary. 32-3t

PROPOSALS FOR OIL ENGINES, ROTARY TRANSFORMERS AND STORAGE BATTERIES.—U. S. Engineer Office, Willets Point, N. Y., Aug. 7, 1897.—Separate sealed proposals for furnishing and delivering at New York city, Oil Engines, Rotary Transformers and Storage Batteries, will be received here until 12 m., Sept. 6, 1897, and then publicly opened. Information furnished on application. JOHN G. D. KNIGHT, Major, Engrs. 33-3t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Aug. 16, 1897.—Sealed proposals will be received at this office until 2 o'clock p. m. on the 10th day of September, 1897, and opened immediately thereafter, for all the labor and materials required and fixing in place complete the LOW PRESSURE, RETURN CIRCULATION, STEAM HEATING AND VENTILATING APPARATUS for the U. S. Post Office building, YOUNGSTOWN, OHIO, in strict accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Youngstown, Ohio. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the government to do so. All proposals received after the time stated for opening, will be returned to the bidders. C. E. KEMPER, Acting Supervising Architect. 33-2t

For Other Proposals see Page XXVI.

NEW YORK STATE CANALS.

Notice to Contractors.

Office of the Superintendent of Public Works.

Albany, N. Y., Friday, Aug. 6th, 1897.

Pursuant to chapter 79, laws of 1895, chapter 794, laws of 1896, and chapters 43 and 569, laws of 1897, sealed proposals for work on the

Western Division,

will be received by the Superintendent of Public Works at his office in Albany, N. Y., until

Friday, September 3d, 1897,

at 12 o'clock noon of that day, for the following pieces of work. The work will be bid for and let separately, and every proposal for each piece of work hereinafter designated must be accompanied by a draft on some good banking institution of the City of New York, or Albany, issued by a national or state bank in good credit within the state, payable at sight to the Superintendent of Public Works. The amount of deposit will be 5 per cent. of the proposal, and will be retained as a part of the security until the completion of the work; the amount of labor bond required on execution of contract will be 40 per cent. of the proposal, and the amount of bond for the faithful performance of contract on execution of contract will be 45 per cent. of the proposal:

CONTRACT NO. 6.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from a point 1,000 feet west of Hurd's Bridge No. 148, station 310, section 20, westerly to the foot of Lockport Locks, a distance of 8.45 miles.

CONTRACT NO. 7.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from Shelby Basin Bridge No. 142, station O, section 20, westerly to 1,000 feet west of Hurd's Bridge No. 148, station 310, section 20, a distance of 5.87 miles.

CONTRACT NO. 8.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from 700 feet west of Long's Bridge No. 134, station 320, section 19, westerly to Shelby Basin Bridge No. 142, station 768 plus 42, section 19, a distance of 8.50 miles.

CONTRACT NO. 9.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from Brailey's Bridge No. 125, station O, section 19, westerly to 700 feet west of Long's Bridge No. 134, station 320, section 19, a distance of 6.06 miles.

CONTRACT NO. 10.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from 1,000 feet east of Holley's Bridge No. 115, station 350, section 18, westerly to Brailey's Bridge No. 125, station 76 plus 60, section 18, a distance of 8.44 miles.

CONTRACT NO. 11.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from Cooley's Basin Bridge No. 106, station O, section 18, westerly to a point 1,000 feet east of Holley Bridge No. 115, station 350, section 18, a distance of 6.63 miles.

CONTRACT NO. 12.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from a point 600 feet east of Norman's Bridge No. 97, station 430, section 17, westerly to Cooley's Basin Bridge No. 106, station 749 plus 01, section 17, a distance of 6.04 miles.

CONTRACT NO. 13.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from Rowe Street Bridge No. 86, Rochester, station O, section 17, westerly to a point 600 feet east of Norman's Bridge No. 97, station 430, section 17, a distance of 8.14 miles.

CONTRACT NO. 14.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from the head of Lock No. 66, station 255, section 16, westerly to Rowe Street Bridge No. 86, Rochester, station 486.41, section 16, a distance of 4.38 miles.

CONTRACT NO. 15.—WESTERN DIVISION.

For improving the Western Division of the Erie Canal, from the head of Lock No. 62, station O, section 16, westerly to the head of Lock No. 66, station 255, section 16, a distance of 4.83 miles.

Plans and specifications, notices and form of contract may be seen from the date of publication of this notice to the date fixed for the receipt of proposals, at the office of the Superintendent of Public Works, in Albany, N. Y., and at the office of Thomas Wheeler, Assistant Superintendent of Public Works, in Syracuse, N. Y., and at the office of R. G. Lay, Assistant Superintendent of Public Works, in Rochester, N. Y. All proposals for the above work must be addressed to the Superintendent of Public Works, at Albany, N. Y., and must be endorsed on envelope, "Proposals for Contract No. ——, WESTERN DIVISION." The right is reserved to reject any or all bids.

GEORGE W ALDRIDGE,
Superintendent of Public Works.
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